

chain nodes :

8 9 10 11 15

ring nodes :

1 2 3 4 5 6

ring/chain nodes :

13 16 17 18 23 24

chain bonds :

1-15 4-23 5-8 8-9 9-10 10-11 10-13

ring/chain bonds :

13-24

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-15 4-23 8-9 9-10 10-11 10-13 13-24

exact bonds :

5-8

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:C,O,S,N

G2:CN,NO2,X

G3:[*1], [*2], [*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS
10:CLASS 11:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
23:CLASS 24:CLASS

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=> d his

(FILE 'HOME' ENTERED AT 10:47:06 ON 05 MAR 2003)

FILE 'REGISTRY' ENTERED AT 10:47:11 ON 05 MAR 2003

L1 STRUCTURE uploaded
L2 QUE L1
L3 18 S L2
L4 831 S L2 SSS FUL
L5 24 S L4 AND NRS>3
L6 STRUCTURE uploaded
L7 QUE L6
L8 41 S L7 SUB=L4 SAMA
L9 829 S L7 SUB=L4 FUL
L10 2 S L4 NOT L9

FILE 'REGISTRY' ENTERED AT 10:53:27 ON 05 MAR 2003

L11 STRUCTURE uploaded
L12 QUE L11
L13 41 S L12 SUB=L4 SAM
L14 803 S L12 SUB=L4 FUL
L15 28 S L4 NOT L14

FILE 'CPLUS' ENTERED AT 10:56:39 ON 05 MAR 2003

L16 191 S L14
L17 ANALYZE L16 1- RN HIT : 784 TERMS

FILE 'REGISTRY' ENTERED AT 10:57:14 ON 05 MAR 2003

L18 1 S 146599-48-6/RN
L19 1 S 103341-63-5/RN
L20 1 S 81123-39-9/RN
L21 1 S 81123-38-8/RN
L22 1 S 155833-69-5/RN
L23 1 S 107562-58-3
L24 1 S 147140-72-5
L25 1 S 103355-72-2/RN
L26 1 S 259536-96-4/RN
L27 1 S 106944-66-5/RN
L28 9 S L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26
L29 794 S L14 NOT L28

FILE 'CPLUS' ENTERED AT 11:02:34 ON 05 MAR 2003

L30 154 S L29
L31 ANALYZE L30 1- RN HIT : 775 TERMS

FILE 'REGISTRY' ENTERED AT 11:04:15 ON 05 MAR 2003

L32 STRUCTURE uploaded
L33 QUE L32
L34 261 S L33 SUB=L4 FUL

FILE 'CPLUS' ENTERED AT 11:05:14 ON 05 MAR 2003

L35 49 S L34
L36 38 S L35 AND PATENT/DT
L37 11 S L35 NOT L36
L38 0 S L37 AND 2003/SO
L39 1 S L37 AND 2002/SO
L40 4 S L37 AND 2001/SO
L41 1 S L39 AND JOURNAL/DT

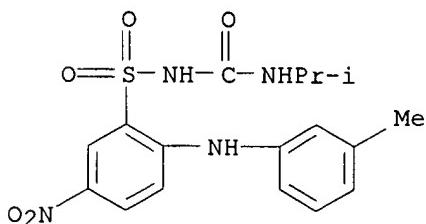
09/868,930

L42 4 S L40 AND JOURNAL/DT
L43 44 S L35 NOT (L40 OR L41)

=> d bib abs hitstr 1-44

09/868,930

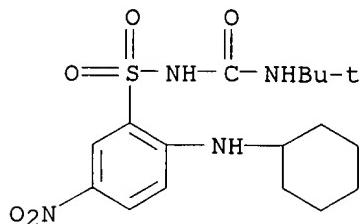
ANSWER 1 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 2000:536363 CAPLUS
DN 134:157347
TI Effects of a novel non-carboxylic thromboxane A₂ receptor antagonist (BM-531) derived from torasemide on platelet function
AU Dogne, J.-M.; De Leval, X.; Neven, P.; Rolin, S.; Wauters, J.; David, J.-L.; Delarge, J.; Masereel, B.
CS Department of Medicinal Chemistry, University of Liege, Liege, B-4000, Belg.
SO Prostaglandins, Leukotrienes and Essential Fatty Acids (2000), 62(5), 311-317
CODEN: PLEAEU; ISSN: 0952-3278
PB Churchill Livingstone
DT Journal
LA English
AB In this study we examd. the thromboxane A₂ (TXA₂) receptor antagonist property of BM-531 (N-tert-butyl-N'-(2-cyclohexylamino-5-nitrobenzene)sulfonyl) urea, a torasemide deriv., on platelet function. The drug affinity for human washed platelet TXA₂ receptors labeled with [³H]SQ-29,548 has been detd. (IC₅₀: 0.0078 .mu.M) and demonstrated to be higher than sulotroban (IC₅₀: 0.93 .mu.M) and SQ-29,548 (IC₅₀: 0.021 .mu.M). The antiaggregatory potency has been confirmed since we demonstrated that BM-531 prevented platelet aggregation in human citrated platelet-rich plasma induced by arachidonic acid (600 .mu.M) (ED₁₀₀: 0.125 .mu.M), U-46619, a stable TXA₂ agonist (1 .mu.M) (ED₅₀: 0.482 .mu.M) and collagen (1 .mu.g mL⁻¹) (% of inhibition: 42.9% at 10 .mu.M) and inhibited the second wave of ADP (2 .mu.M). Moreover, when BM-531 was incubated in whole blood from healthy donors, the closure time measured by the recently developed platelet function analyzer (PFA-100) was significantly prolonged. These results suggest that BM-531 can be regarded as a novel non-carboxylic TXA₂ antagonist with a powerful antiplatelet potency.
IT 106944-66-5, BM 500
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(comparison compd.; effects of a novel non-carboxylic thromboxane A₂ receptor antagonist (BM-531) derived from torasemide on platelet function)
RN 106944-66-5 CAPLUS
CN Benzenesulfonamide, N-[[[(1-methylethyl)amino]carbonyl]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



IT 284464-46-6, BM 531
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(effects of a novel non-carboxylic thromboxane A₂ receptor antagonist

09/868,930

(BM-531) derived from torasemide on platelet function)
RN 284464-46-6 CAPLUS
CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[(1,1-dimethylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

09/868,930

L43 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 2000:493508 CAPLUS

DN 133:120156

TI Benzenesulfonamide derivatives and their medicinal uses

IN Delarge, Jacques; Dogne, Jean-Michel; Masereel, Bernard

PA Universite de Liege, Belg.

SO PCT Int. Appl., 53 pp.

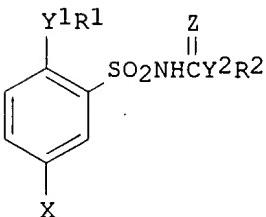
CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000042004	A1	20000720	WO 2000-EP225	20000112
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BE 1012386	A3	20001003	BE 1999-26	19990115
	CA 2356290	AA	20000720	CA 2000-2356290	20000112
	EP 1140810	A1	20011010	EP 2000-902587	20000112
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	BE 1999-26	A	19990115		
	WO 2000-EP225	W	20000112		
OS	MARPAT	133:120156			
GI					



I

AB Title compds. such as I (X = NO₂, CN, halo; Y₁ = NH; Y₂ = NH, O; Z = O, S, NCN; R₁, R₂ = alkyl, cycloalkyl, aryl) were prep'd. Thus, the sulfonylureas were prep'd. by reaction of the sulfonamides with isocyanates in the presence of NaOH. The affinities of the products for human platelet thromboxane A₂ receptors were detd., and rat aorta contraction and other tests were carried out.

IT 284464-18-2P 284464-19-3P 284464-20-6P
284464-21-7P 284464-22-8P 284464-23-9P
284464-24-0P 284464-25-1P 284464-26-2P
284464-27-3P 284464-28-4P 284464-29-5P
284464-30-8P 284464-31-9P 284464-32-0P
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284464-36-4P 284464-37-5P 284464-38-6P

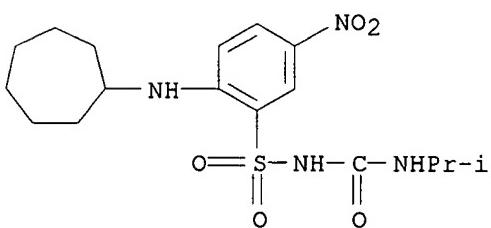
09/868,930

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284464-42-2P 284464-43-3P 284464-44-4P
284464-45-5P 284464-46-6P 284464-47-7P
284464-48-8P 284464-49-9P 284464-50-2P
284464-51-3P 284464-52-4P 284464-53-5P
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284465-09-4P 284465-10-7P 284465-11-8P
284465-12-9P 284465-13-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn., affinity to human platelet thromboxane A₂ receptors, and cardiovascular activity of)

RN 284464-18-2 CAPLUS

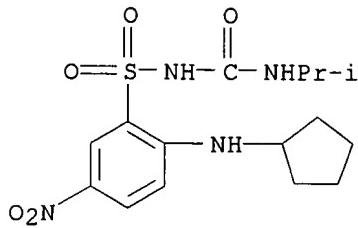
CN Benzenesulfonamide, 2-(cycloheptylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



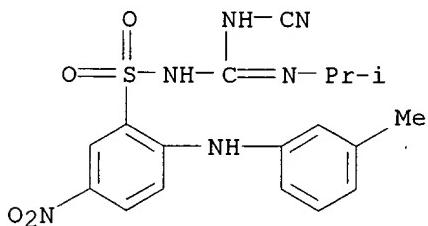
RN 284464-19-3 CAPLUS

CN Benzenesulfonamide, 2-(cyclopentylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)

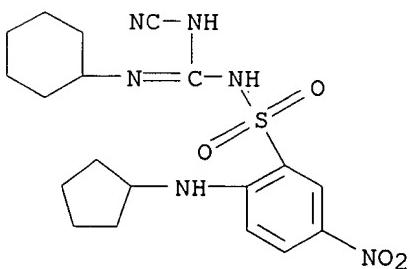
09/868,930



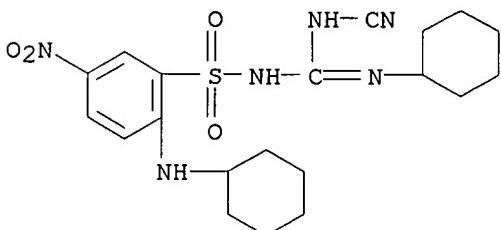
RN 284464-20-6 CAPLUS
CN Benzenesulfonamide, N-[(cyanoamino)[(1-methylethyl)amino]methylene]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-21-7 CAPLUS
CN Benzenesulfonamide, N-[(cyanoamino)(cyclohexylamino)methylene]-2-(cyclopentylamino)-5-nitro- (9CI) (CA INDEX NAME)



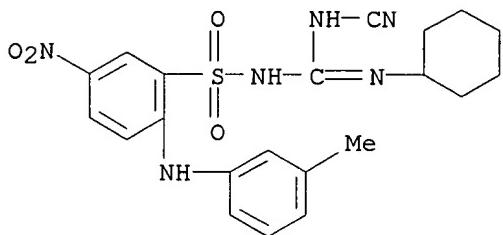
RN 284464-22-8 CAPLUS
CN Benzenesulfonamide, N-[(cyanoamino)(cyclohexylamino)methylene]-2-(cyclohexylamino)-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-23-9 CAPLUS

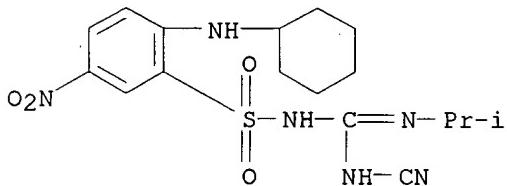
09/868,930

CN Benzenesulfonamide, N-[(cyanoamino) (cyclohexylamino)methylene]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



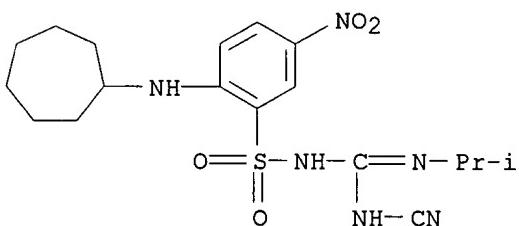
RN 284464-24-0 CAPLUS

CN Benzenesulfonamide, N-[(cyanoamino) [(1-methylethyl)amino]methylene]-2-(cyclohexylamino)-5-nitro- (9CI) (CA INDEX NAME)



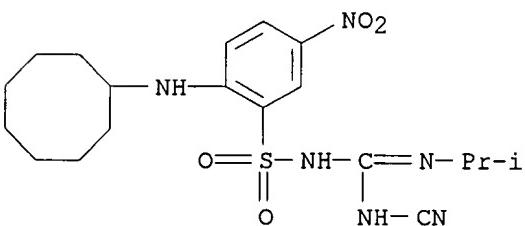
RN 284464-25-1 CAPLUS

CN Benzenesulfonamide, N-[(cyanoamino) [(1-methylethyl)amino]methylene]-2-(cycloheptylamino)-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-26-2 CAPLUS

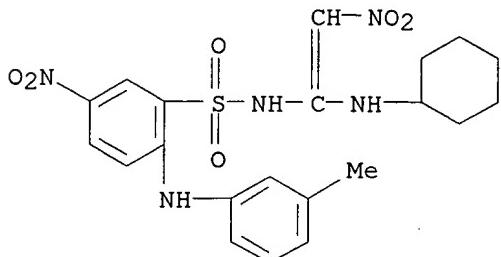
CN Benzenesulfonamide, N-[(cyanoamino) [(1-methylethyl)amino]methylene]-2-(cyclooctylamino)-5-nitro- (9CI) (CA INDEX NAME)



09/868,930

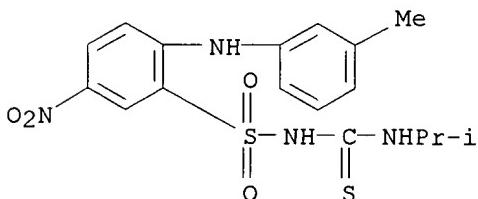
RN 284464-27-3 CAPLUS

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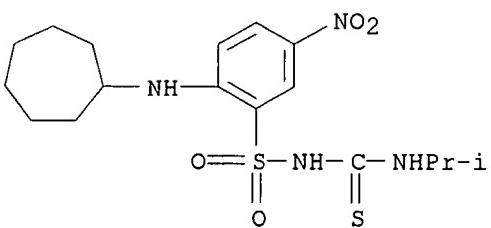
RN 284464-28-4 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]thioxomethyl]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-29-5 CAPLUS

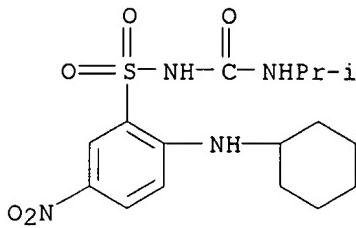
CN Benzenesulfonamide; 2-(cycloheptylamino)-N-[(1-methylethyl)amino]thioxomethyl]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-30-8 CAPLUS

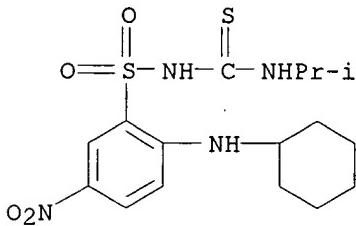
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09/868, 930



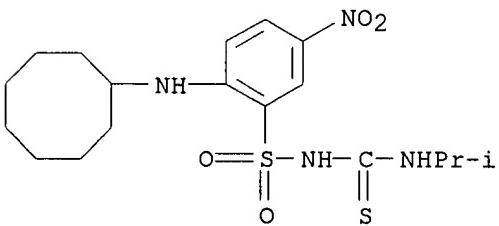
RN 284464-31-9 CAPLUS

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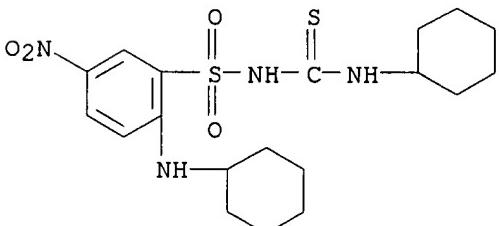
RN 284464-32-0 CAPLUS

CN Benzenesulfonamide, 2-(cyclooctylamino)-N-[(1-methylethyl)amino]thioxomethyl-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-33-1 CAPLUS

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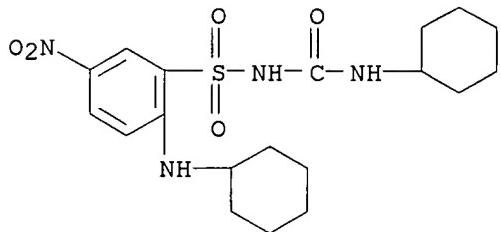


RN 284464-34-2 CAPLUS

CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[(cyclohexylamino)carbonyl]-5-

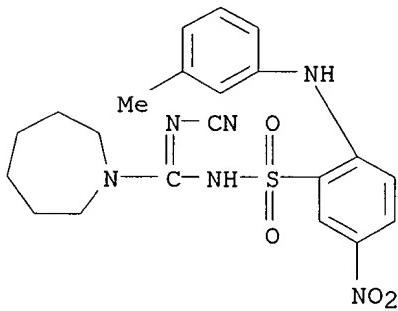
09/868,930

nitro- (9CI) (CA INDEX NAME)



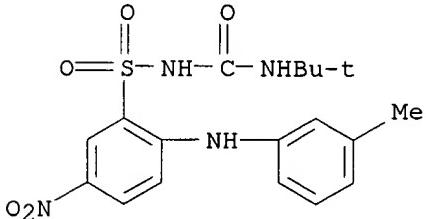
RN 284464-35-3 CAPLUS

CN 1H-Azepine-1-carboximidamide, N-cyanohexahydro-N'-(2-[(3-methylphenyl)amino]-5-nitrophenylsulfonyl)- (9CI) (CA INDEX NAME)



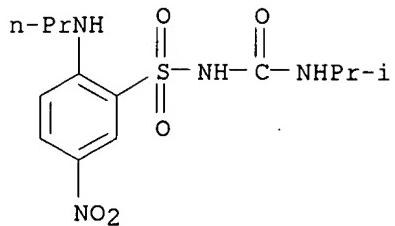
RN 284464-36-4 CAPLUS

CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)

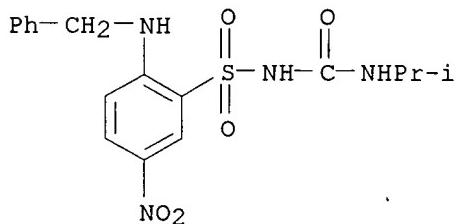


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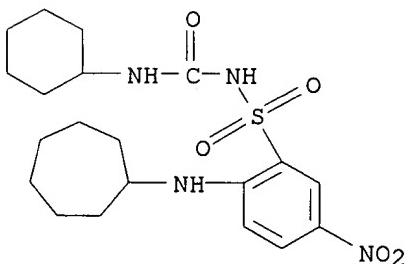
CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl-5-nitro-2-(propylamino)- (9CI) (CA INDEX NAME)



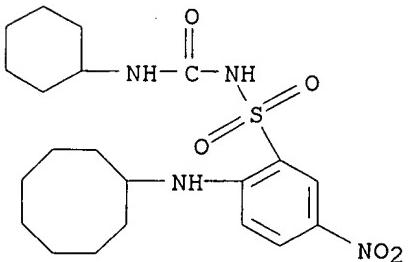
RN 284464-38-6 CAPLUS
CN Benzenesulfonamide, N-[[(1-methylethyl)amino] carbonyl]-5-nitro-2-
[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



RN 284464-39-7 CAPLUS
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nitro- (9CI) (CA INDEX NAME)

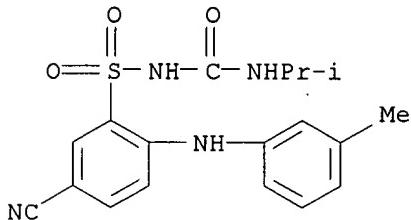


RN 284464-40-0 CAPLUS
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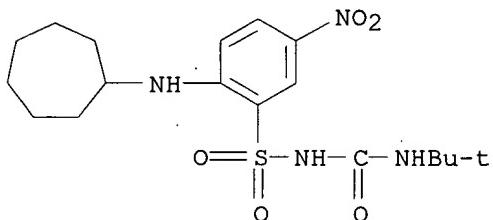


09/868,930

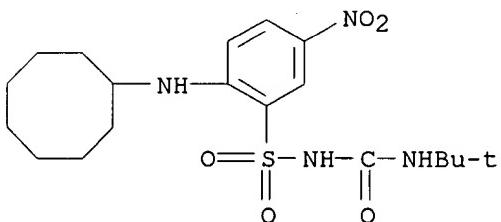
RN 284464-41-1 CAPLUS
CN Benzenesulfonamide, 5-cyano-N-[(1-methylethyl)amino]carbonyl]-2-[(3-methylphenyl)amino]- (9CI) (CA INDEX NAME)



RN 284464-42-2 CAPLUS
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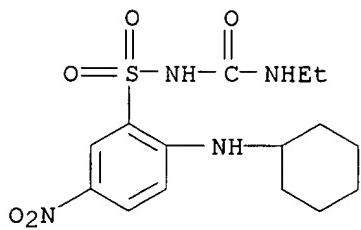


RN 284464-43-3 CAPLUS
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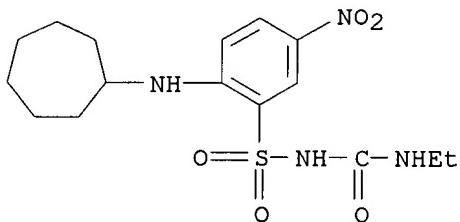
RN 284464-44-4 CAPLUS
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09/868,930



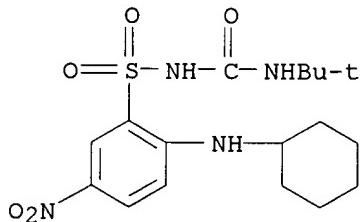
RN 284464-45-5 CAPLUS

CN Benzenesulfonamide, 2-(cycloheptylamino)-N-[(ethylamino)carbonyl]-5-nitro-
(9CI) (CA INDEX NAME)



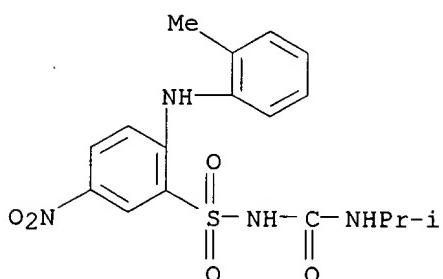
RN 284464-46-6 CAPLUS

CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[[[(1,1-dimethylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



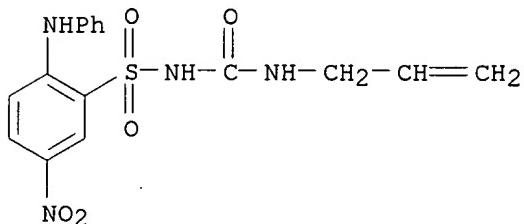
RN 284464-47-7 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl-2-[(2-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)

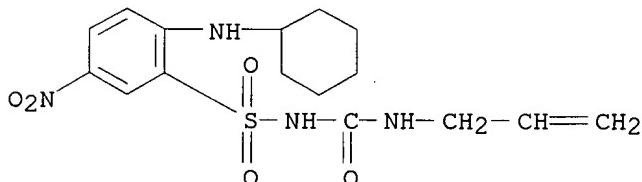


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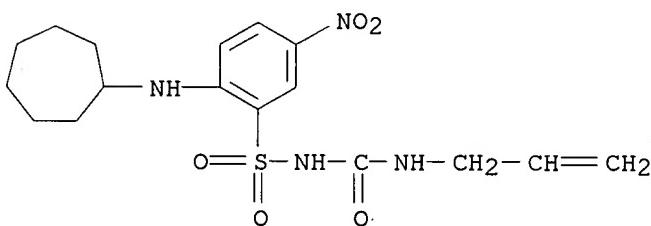
RN 284464-48-8 CAPLUS
CN Benzenesulfonamide, 5-nitro-2-(phenylamino)-N-[(2-propenylamino) carbonyl]-
(9CI) (CA INDEX NAME)



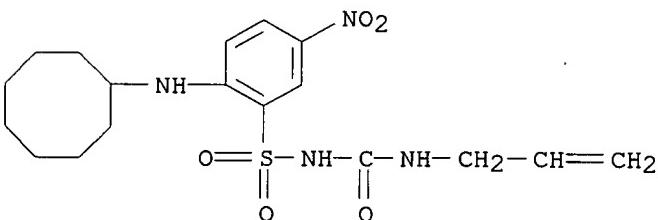
RN 284464-49-9 CAPLUS
CN Benzenesulfonamide, 2-(cyclohexylamino)-5-nitro-N-[(2-
propenylamino)carbonyl]- (9CI) (CA INDEX NAME)



RN 284464-50-2 CAPLUS
CN Benzenesulfonamide, 2-(cycloheptylamino)-5-nitro-N-[(2-
propenylamino)carbonyl]- (9CI) (CA INDEX NAME)

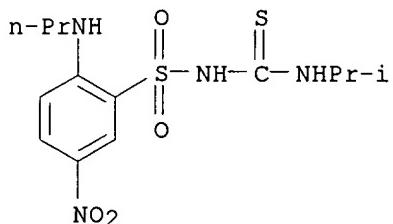


RN 284464-51-3 CAPLUS
CN Benzenesulfonamide, 2-(cyclooctylamino)-5-nitro-N-[(2-
propenylamino)carbonyl]- (9CI) (CA INDEX NAME)

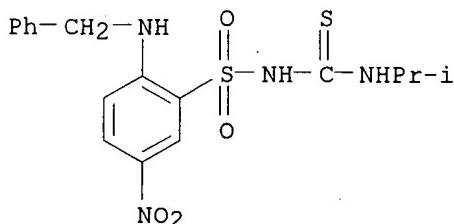


09/868,930

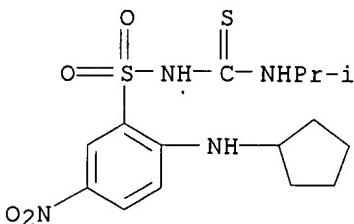
RN 284464-52-4 CAPLUS
CN Benzenesulfonamide, N-[(1-methylethyl)amino]thioxomethyl]-5-nitro-2-(propylamino)- (9CI) (CA INDEX NAME)



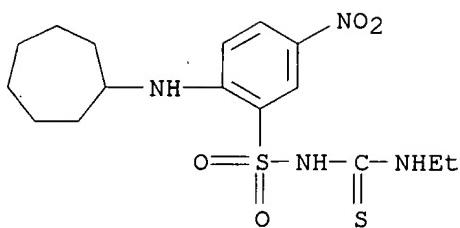
RN 284464-53-5 CAPLUS
CN Benzenesulfonamide, N-[(1-methylethyl)amino]thioxomethyl]-5-nitro-2-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



RN 284464-54-6 CAPLUS
CN Benzenesulfonamide, 2-(cyclopentylamino)-N-[(1-methylethyl)amino]thioxomethyl]-5-nitro- (9CI) (CA INDEX NAME)

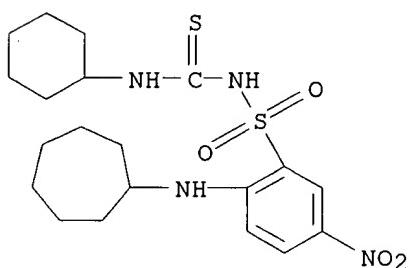


RN 284464-55-7 CAPLUS
CN Benzenesulfonamide, 2-(cycloheptylamino)-N-[(ethylamino)thioxomethyl]-5-nitro- (9CI) (CA INDEX NAME)



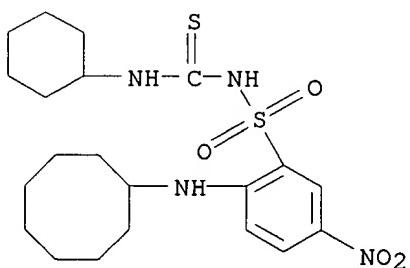
RN 284464-56-8 CAPLUS

CN Benzenesulfonamide, 2-(cycloheptylamino)-N-[(cyclohexylamino)thioxomethyl]-5-nitro- (9CI) (CA INDEX NAME)



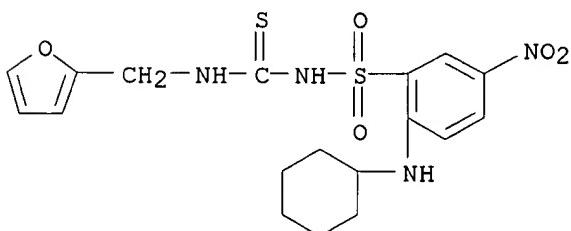
RN 284464-57-9 CAPLUS

CN Benzenesulfonamide, N-[(cyclohexylamino)thioxomethyl]-2-(cyclooctylamino)-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-58-0 CAPLUS

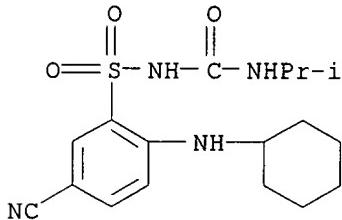
CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[[[2-furanyl]methyl]amino]thioxomethyl]-5-nitro- (9CI) (CA INDEX NAME)



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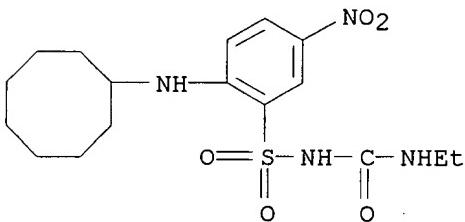
RN 284464-59-1 CAPLUS

CN Benzenesulfonamide, 5-cyano-2-(cyclohexylamino)-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



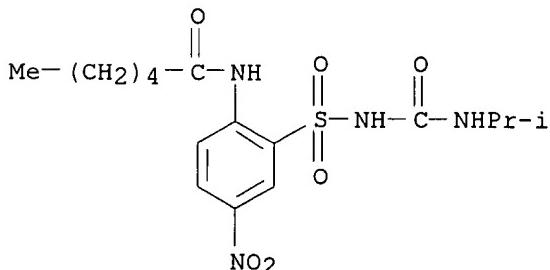
RN 284464-60-4 CAPLUS

CN Benzenesulfonamide, 2-(cyclooctylamino)-N-[(ethylamino)carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-62-6 CAPLUS

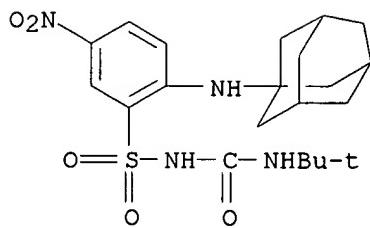
CN Hexanamide, N-[2-[[[[1-methylethyl)amino]carbonyl]amino]sulfonyl]-4-nitrophenyl]- (9CI) (CA INDEX NAME)



RN 284464-63-7 CAPLUS

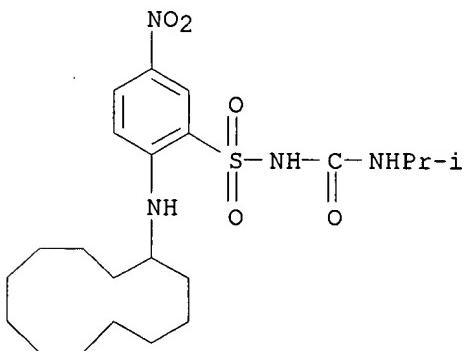
CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-5-nitro-2-(tricyclo[3.3.1.13,7]dec-1-ylamino)- (9CI) (CA INDEX NAME)

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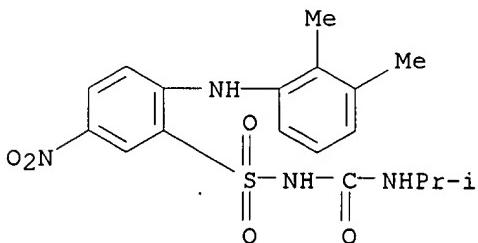
RN 284464-64-8 CAPLUS

CN Benzenesulfonamide, 2-(cyclododecylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



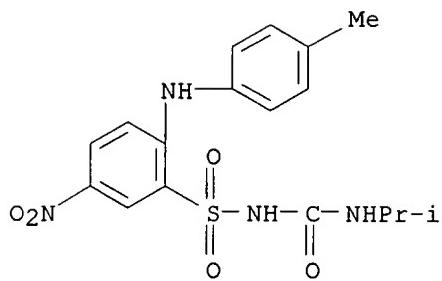
RN 284464-65-9 CAPLUS

CN Benzenesulfonamide, 2-[(2,3-dimethylphenyl)amino]-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



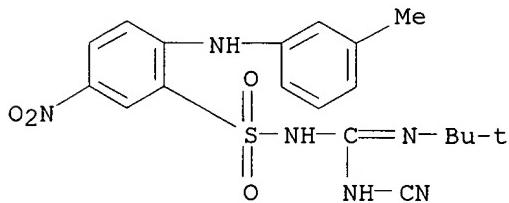
RN 284464-66-0 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl-2-[(4-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



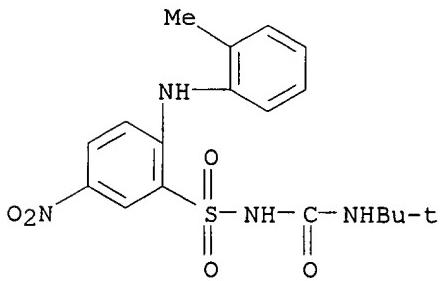
RN 284464-67-1 CAPLUS

CN Benzenesulfonamide, N-[(cyanoamino)[(1,1-dimethylethyl)amino]methylene]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



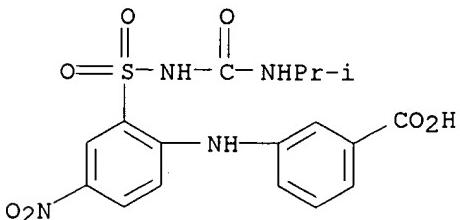
RN 284464-68-2 CAPLUS

CN Benzenesulfonamide, N-[([(1,1-dimethylethyl)amino]carbonyl]-2-[(2-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-69-3 CAPLUS

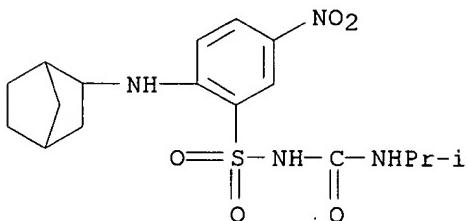
CN Benzoic acid, 3-[[2-[[[[(1-methylethyl)amino]carbonyl]amino]sulfonyl]-4-nitrophenyl]amino]- (9CI) (CA INDEX NAME)



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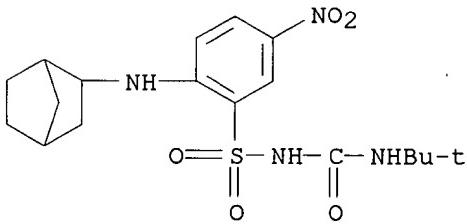
RN 284464-70-6 CAPLUS

CN Benzenesulfonamide, 2-(bicyclo[2.2.1]hept-2-ylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



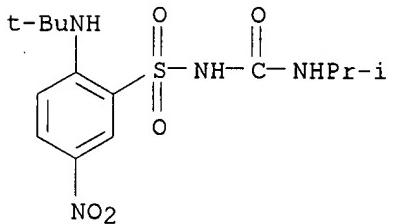
RN 284464-71-7 CAPLUS

CN Benzenesulfonamide, 2-(bicyclo[2.2.1]hept-2-ylamino)-N-[(1,1-dimethylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-72-8 CAPLUS

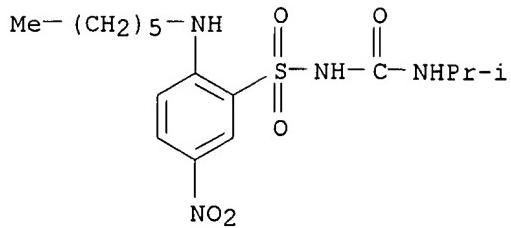
CN Benzenesulfonamide, 2-[(1,1-dimethylethyl)amino]-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



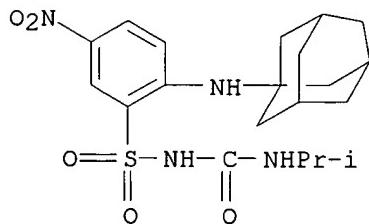
RN 284464-73-9 CAPLUS

CN Benzenesulfonamide, 2-(hexylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)

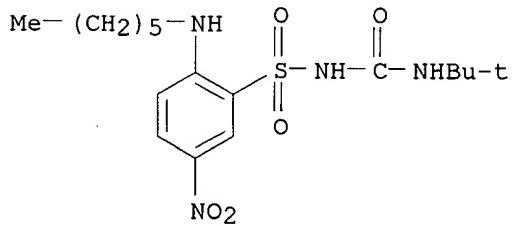
09/868,930



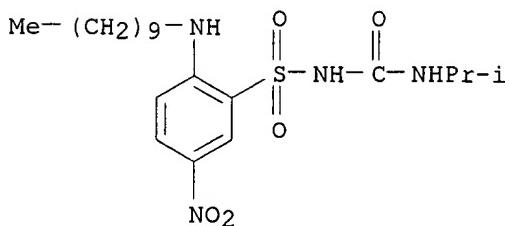
RN 284464-74-0 CAPLUS
CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-5-nitro-2-(tricyclo[3.3.1.13,7]dec-1-ylamino)- (9CI) (CA INDEX NAME)



RN 284464-75-1 CAPLUS
CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-2-(hexylamino)-5-nitro- (9CI) (CA INDEX NAME)



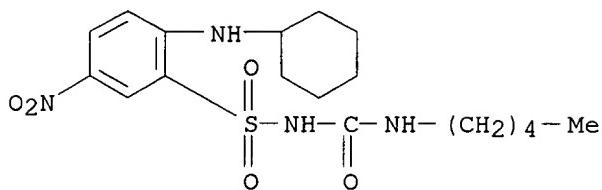
RN 284464-76-2 CAPLUS
CN Benzenesulfonamide, 2-(decylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-77-3 CAPLUS
CN Benzenesulfonamide, 2-(cyclohexylamino)-5-nitro-N-[(pentylamino)carbonyl]-

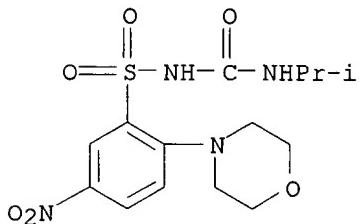
09/868,930

(9CI) (CA INDEX NAME)



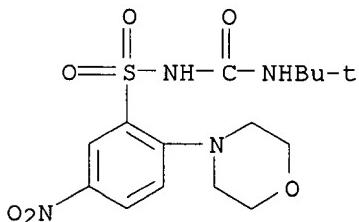
RN 284464-78-4 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl-2-(4-morpholinyl)-5-nitro- (9CI) (CA INDEX NAME)



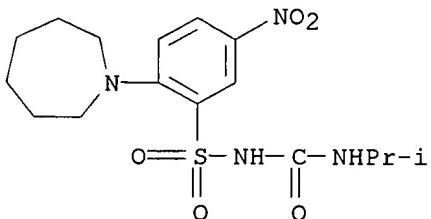
RN 284464-79-5 CAPLUS

CN Benzenesulfonamide, N-[(1,1-dimethylpropyl)amino]carbonyl-2-(4-morpholinyl)-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-80-8 CAPLUS

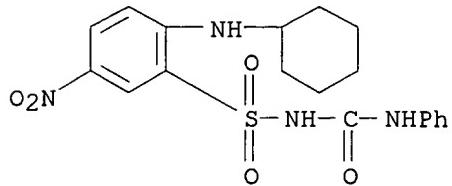
CN Benzenesulfonamide, 2-(hexahydro-1H-azepin-1-yl)-N-[(1-methylethyl)amino]carbonyl-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-81-9 CAPLUS

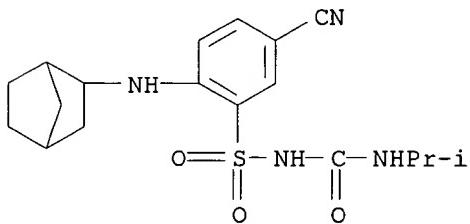
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CN Benzenesulfonamide, 2-(cyclohexylamino)-5-nitro-N-[(phenylamino) carbonyl]-
(9CI) (CA INDEX NAME)



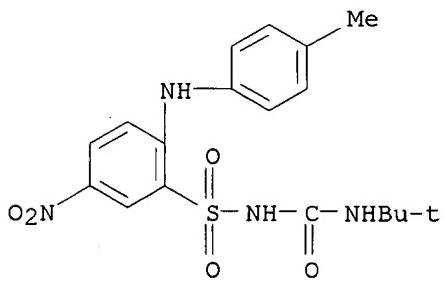
RN 284464-82-0 CAPLUS

CN Benzenesulfonamide, 2-(bicyclo[2.2.1]hept-2-ylamino)-5-cyano-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



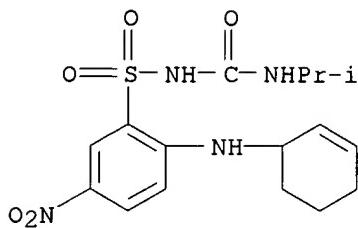
RN 284464-83-1 CAPLUS

CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-2-[(4-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



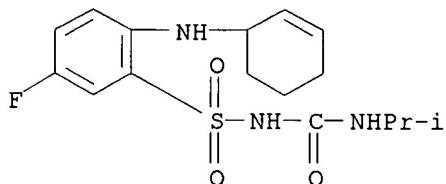
RN 284464-84-2 CAPLUS

CN Benzenesulfonamide, 2-(2-cyclohexen-1-ylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



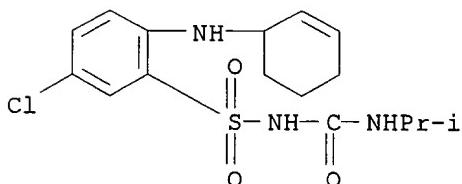
RN 284464-85-3 CAPLUS

CN Benzenesulfonamide, 2-(2-cyclohexen-1-ylamino)-5-fluoro-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



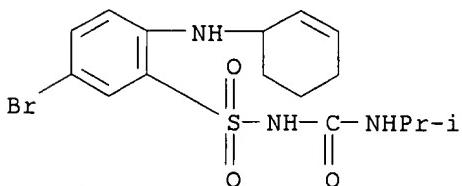
RN 284464-86-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(2-cyclohexen-1-ylamino)-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 284464-87-5 CAPLUS

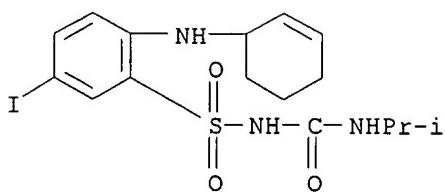
CN Benzenesulfonamide, 5-bromo-2-(2-cyclohexen-1-ylamino)-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 284464-88-6 CAPLUS

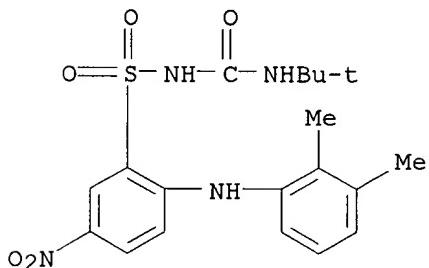
CN Benzenesulfonamide, 2-(2-cyclohexen-1-ylamino)-5-iodo-N-[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)

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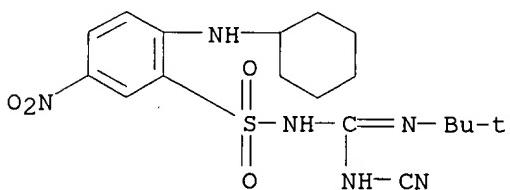
RN 284464-89-7 CAPLUS

CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-2-[(2,3-dimethylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



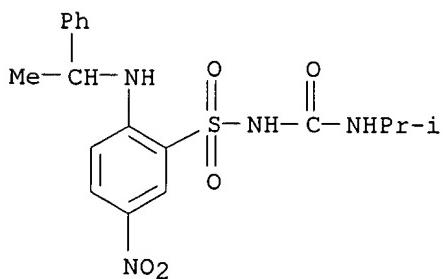
RN 284464-90-0 CAPLUS

CN Benzenesulfonamide, N-[(cyanoamino)[(1,1-dimethylethyl)amino]methylene]-2-(cyclohexylamino)-5-nitro- (9CI) (CA INDEX NAME)



RN 284464-91-1 CAPLUS

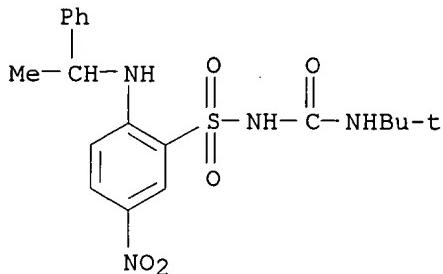
CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-5-nitro-2-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



RN 284464-92-2 CAPLUS

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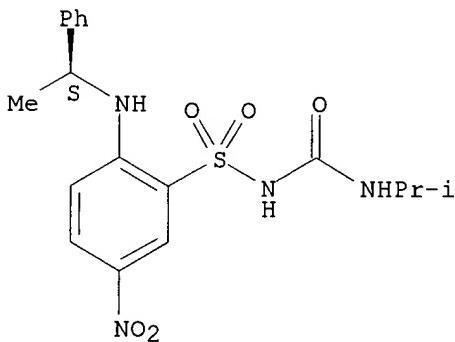
CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-5-nitro-2-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



RN 284464-93-3 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-5-nitro-2-[(1S)-1-phenylethyl]amino]- (9CI) (CA INDEX NAME)

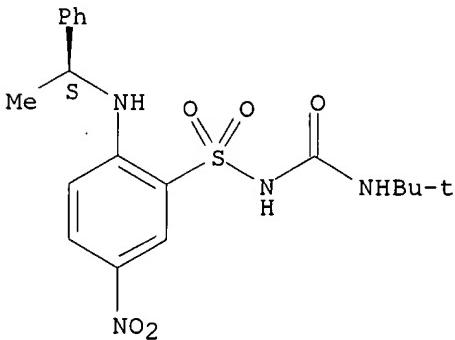
Absolute stereochemistry.



RN 284464-94-4 CAPLUS

CN Benzenesulfonamide, N-[(1,1-dimethylethyl)amino]carbonyl]-5-nitro-2-[(1S)-1-phenylethyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



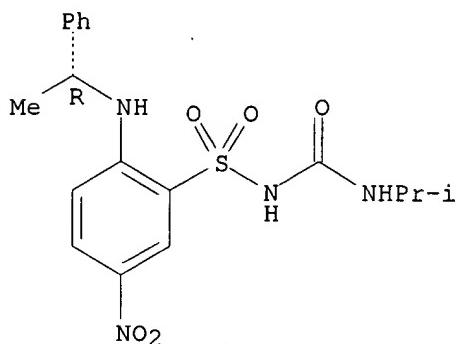
RN 284464-95-5 CAPLUS

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-5-nitro-2-[(1R)-1-

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phenylethyl]amino]- (9CI) (CA INDEX NAME)

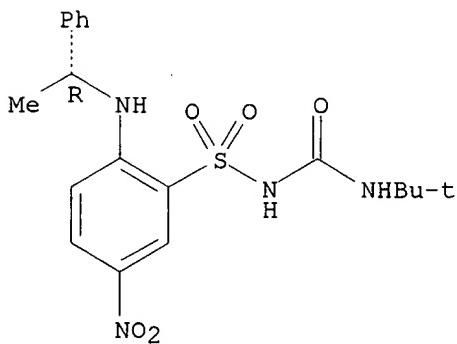
Absolute stereochemistry.



RN 284464-96-6 CAPLUS

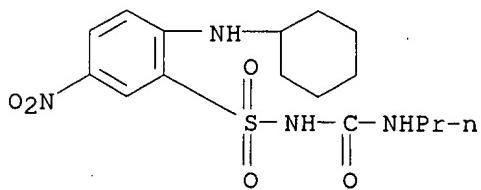
CN Benzenesulfonamide, N-[(1-dimethylethyl)amino]carbonyl]-5-nitro-2-[(1R)-1-phenylethyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 284464-97-7 CAPLUS

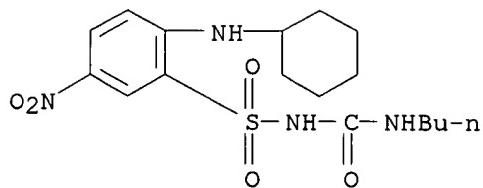
CN Benzenesulfonamide, 2-(cyclohexylamino)-5-nitro-N-[(propylamino)carbonyl]- (9CI) (CA INDEX NAME)



RN 284464-98-8 CAPLUS

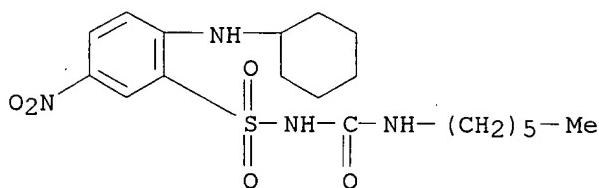
CN Benzenesulfonamide, N-[(butylamino)carbonyl]-2-(cyclohexylamino)-5-nitro- (9CI) (CA INDEX NAME)

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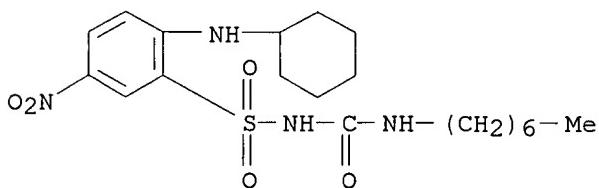
RN 284464-99-9 CAPLUS

CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[(hexylamino)carbonyl]-5-nitro-
(9CI) (CA INDEX NAME)



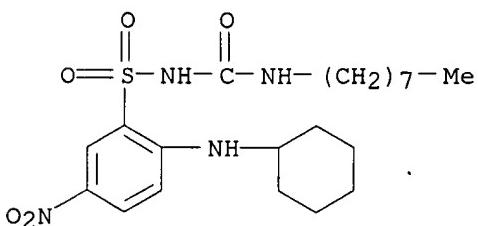
RN 284465-00-5 CAPLUS

CN Benzenesulfonamide, 2-(cyclohexylamino)-N-[(heptylamino)carbonyl]-5-nitro-
(9CI) (CA INDEX NAME)



RN 284465-01-6 CAPLUS

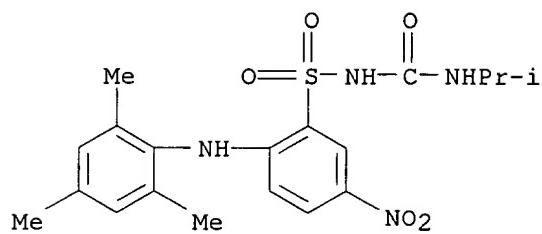
CN Benzenesulfonamide, 2-(cyclohexylamino)-5-nitro-N-[(octylamino)carbonyl]-
(9CI) (CA INDEX NAME)



RN 284465-02-7 CAPLUS

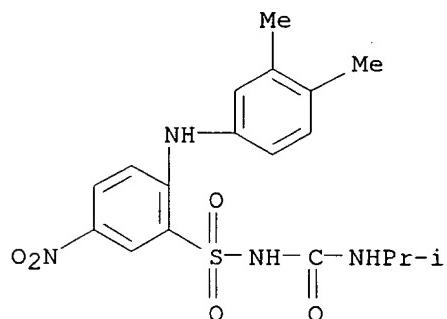
CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl-5-nitro-2-[(2,4,6-
trimethylphenyl)amino]- (9CI) (CA INDEX NAME)

09/868,930



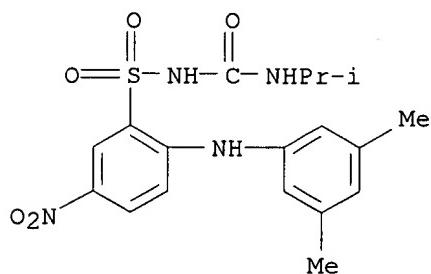
RN 284465-03-8 CAPLUS

CN Benzenesulfonamide, 2-[(3,4-dimethylphenyl)amino]-N-[((1-methylethyl)amino)carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



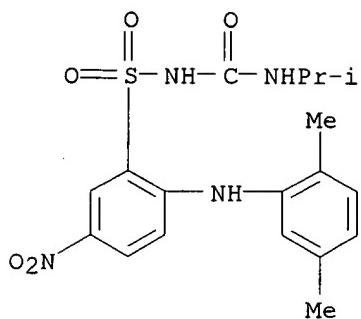
RN 284465-04-9 CAPLUS

CN Benzenesulfonamide, 2-[(3,5-dimethylphenyl)amino]-N-[((1-methylethyl)amino)carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



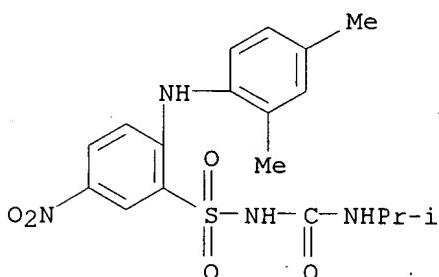
RN 284465-05-0 CAPLUS

CN Benzenesulfonamide, 2-[(2,5-dimethylphenyl)amino]-N-[((1-methylethyl)amino)carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



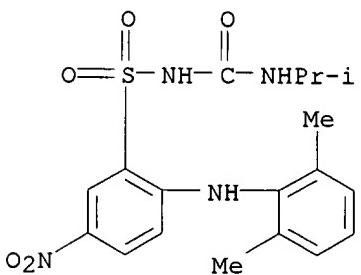
RN 284465-06-1 CAPLUS

CN Benzenesulfonamide, 2-[(2,4-dimethylphenyl)amino]-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



RN 284465-07-2 CAPLUS

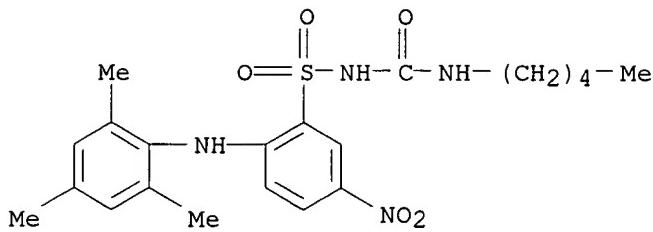
CN Benzenesulfonamide, 2-[(2,6-dimethylphenyl)amino]-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



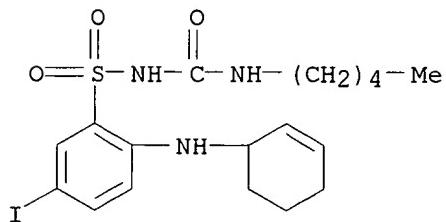
RN 284465-08-3 CAPLUS

CN Benzenesulfonamide, 5-nitro-N-[(pentylamino)carbonyl]-2-[(2,4,6-trimethylphenyl)amino]- (9CI) (CA INDEX NAME)

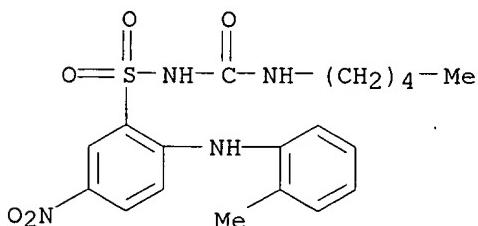
09/868,930



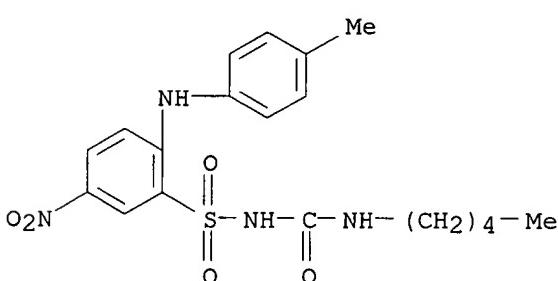
RN 284465-09-4 CAPLUS
CN Benzenesulfonamide, 2-(2-cyclohexen-1-ylamino)-5-iodo-N-[(pentylamino)carbonyl]- (9CI) (CA INDEX NAME)



RN 284465-10-7 CAPLUS
CN Benzenesulfonamide, 2-[(2-methylphenyl)amino]-5-nitro-N-[(pentylamino)carbonyl]- (9CI) (CA INDEX NAME)

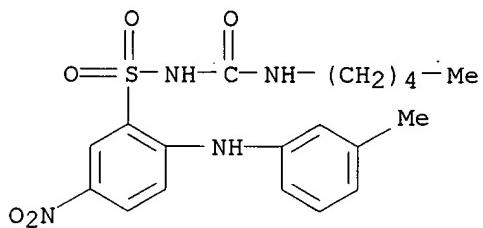


RN 284465-11-8 CAPLUS
CN Benzenesulfonamide, 2-[(4-methylphenyl)amino]-5-nitro-N-[(pentylamino)carbonyl]- (9CI) (CA INDEX NAME)

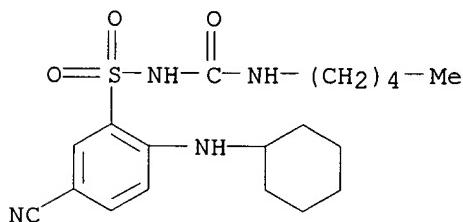


09/868,930

RN 284465-12-9 CAPLUS
CN Benzenesulfonamide, 2-[(3-methylphenyl)amino]-5-nitro-N-[pentylamino]carbonyl- (9CI) (CA INDEX NAME)

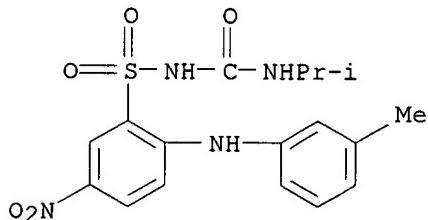


RN 284465-13-0 CAPLUS
CN Benzenesulfonamide, 5-cyano-2-(cyclohexylamino)-N-[pentylamino]carbonyl- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LN3 ANSWER 3 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1999:514811 CAPLUS
DN 131:281224
TI Thromboxane A2 receptor antagonism in man and rat by a sulfonylcyanoguanidine (BM-144) and a sulfonylurea (BM-500)
AU Masereel, B.; Damas, J.; Fontaine, J.; Lembege, M.; Lacan, F.; Nuhrich, A.; Delarge, J.; Pochet, L.; Dogne, J. M.
CS Department of Pharmacy, University of Namur, FUNDP, Namur, 5000, Belg.
SO Journal of Pharmacy and Pharmacology (1999), 51(6), 695-701
CODEN: JPPMAB; ISSN: 0022-3573 *June*
PB Royal Pharmaceutical Society of Great Britain
DT Journal
LA English
AB Torasemide, a loop diuretic, has been reported to relax dog coronary artery precontracted by thromboxane A2 (TXA2), an endogenous prostanoid involved in cardiovascular and pulmonary diseases. N-cyano-N'-(4-(3'-methylphenylamino)pyrid-3-yl)sulfonyl)homopiperidinoamidine (BM-144) and N-isopropyl-N'-(5-nitro-2-(3'-methylphenylamino)-benzenesulfonyl)urea (BM-500), chem. related to torasemide, have been examd. for their TXA2 antagonism. The affinity (IC₅₀, the concn. resulting in 50% inhibition) of BM-144 and BM-500 for the TXA2 receptor of washed platelets from man was 0.28 and 0.079 .mu.M, resp. This is better than for sulotroban (IC₅₀ = 0.93 .mu.M) but less than for SQ-29548 (IC₅₀ = 0.021 .mu.M), two TXA2 antagonists used as ref. The aggregation of platelets from man induced by arachidonic acid was prevented by BM-144 (IC₅₀ = 9.0 .mu.M) and by BM-500 (IC₅₀ = 14.2 .mu.M). Similar results were obtained by use of U-46619, a TXA agonist, as aggregating agent (BM-144, IC₅₀ = 12.9 .mu.M and BM-500, IC₅₀ = 9.9 .mu.M). The contracting effect of U-46619 on rat stomach strip was abolished by BM-144 (IC₅₀ = 1.01 .mu.M) and BM-500 (IC₅₀ = 2.54 .mu.M). Both drugs (BM-144: IC₅₀ = 0.12 .mu.M and BM-500: IC₅₀ = 0.19 .mu.M) also relaxed rat aorta precontracted by U-46619; both were more potent than sulotroban (IC₅₀ = 1.62 .mu.M). The two torasemide derivs. (100 .mu.M) did not significantly affect the myo-stimulating effect of some prostaglandins (PGE₂, PG_{I2}, PGF_{2.alpha.}) or aorta contraction elicited by KCl (30 mM). They did not modify rat diuresis after administration of a 30-mg kg⁻¹ dose. In conclusion, BM-144 and BM-500 can be regarded as novel non-carboxylic TXA2 receptor antagonists and offer a novel template for the design of more potent mols.
IT 106944-66-5, BM 500
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
RN (thromboxane A2 receptor antagonism in man and rat by derivs. of sulfonylcyanoguanidine and sulfonylurea)
CN 106944-66-5 CAPLUS
RN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



09/868,930

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L43 ANSWER 4 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1997:618096 CAPLUS

DN 127:293227

TI Preparation of substituted arylsulfonylamino(thio)carbonyltriazolin(thi)ones as herbicides.

IN Muller, Klaus-Helmut; Drewes, Mark Wilhelm; Gesing, Ernst Rudolf F.; Jansen, Johannes Rudolf; Kirsten, Rolf; Kluth, Joachim; Konig, Klaus; Riebel, Hans-Jochem; Schallner, Otto; Findeisen, Kurt; Dollinger, Markus PA Bayer A.-G., Germany; Muller, Klaus-Helmut; Drewes, Mark Wilhelm; Gesing, Ernst Rudolf F.; Jansen, Johannes Rudolf; Kirsten, Rolf; Kluth, Joachim; Konig, Klaus; Riebel, Hans-Jochem; et al.
SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DT Patent

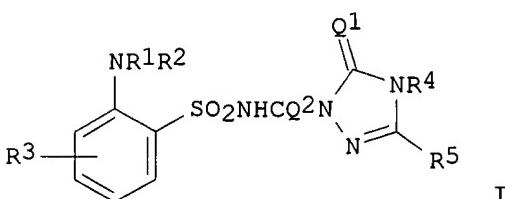
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9732876	A1	19970912	WO 1997-EP878	19970224
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	DE 19609059	A1	19970911	DE 1996-19609059	19960308
	CA 2248285	AA	19970912	CA 1997-2248285	19970224
	AU 9720928	A1	19970922	AU 1997-20928	19970224
	AU 705366	B2	19990520		
	EP 888342	A1	19990107	EP 1997-906119	19970224
	R: DE, DK, ES, FR, GB, IT				
	CN 1218468	A	19990602	CN 1997-194464	19970224
	CN 1079398	B	20020220		
	BR 9707850	A	19990727	BR 1997-7850	19970224
	JP 20000506147	T2	20000523	JP 1997-531405	19970224
	US 6200934	B1	20010313	US 1998-142272	19980903
PRAI	DE 1996-19609059	A	19960308		
	WO 1997-EP878	W	19970224		

OS MARPAT 127:293227

GI



AB Title compds. [I; Q1, Q2 = O, S; R1 = H, amino, (substituted) alkyl, alkoxy, alkylcarbonyl, alkoxy carbonyl, alkylthio, alkylsulfinyl, alkylsulfonyl, alkenyl, alkynyl, alkylideneamino; R2 = H, (substituted) alkyl, alkylcarbonyl, alkoxy carbonyl, alkylsulfonyl, alkenyl, alkynyl; R1R2 = (O-interrupted) (substituted) alkanediyl; R3 = H, cyano, NO₂, halo, (substituted) alkyl, alkylcarbonyl, alkoxy carbonyl; R4 = H, OH, amino, alkylideneamino, (substituted) alkyl, alkenyl, alkynyl, alkoxy, alkeneoxy, alkylamino, dialkylamino, cycloalkyl, cycloalkylalkyl, cycloalkylamino,

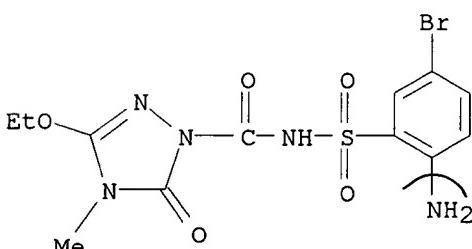
aryl, aryl alkyl; R5 = H, OH, SH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, dialkylamino, alkenyl, alkynyl, alkenyloxy, alkinyloxy, alkenylthio, alkinylthio, alkenylamino, alkinylamino, cycloalkyl, cycloalkyloxy, cycloalkylthio, cycloalkylamino, cycloalkylalkyl, aryl, aryloxy, arylthio, arylamino, aralkyl], were prepd. Thus, 2-pyrrolidinobenzenesulfonamide, 5-ethoxy-4-methyl-2-phenoxy carbonyl-2,4-dihydro-3H-1,2,4-triazol-3-one, and KOCMe₃ were stirred in MeCN to give 34% 5-ethoxy-4-methyl-2-(2-pyrrolidinophenylsulfonylamino carbonyl)-2,4-dihydro-3H-1,2,4-triazol-3-one. Several I at 60-250 g/ha preemergent gave 80-95% control of Cyperus, Setaria, Solanum, Xanthium, Echinochloa, etc.

IT 196964-76-8P 196964-79-1P 196964-80-4P
 196964-81-5P 196964-82-6P 196964-83-7P
 196964-84-8P 196964-88-2P 196964-91-7P
 196964-92-8P 196964-93-9P 196964-94-0P
 196964-95-1P 196964-96-2P 196964-97-3P
 196964-98-4P 196965-02-3P 196965-03-4P
 196965-04-5P 196965-05-6P 196965-26-1P
 196965-33-0P 196965-34-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of substituted arylsulfonylamino(thio)carbonyl triazolin(thi)one s as herbicides)

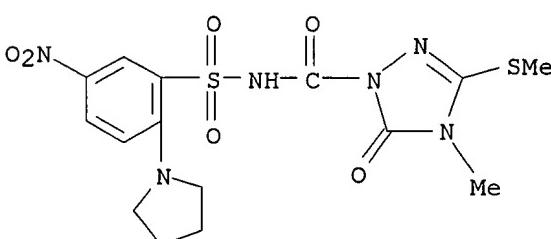
RN 196964-76-8 CAPPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(2-amino-5-bromophenyl)sulfonyl]-3-ethoxy-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-79-1 CAPPLUS

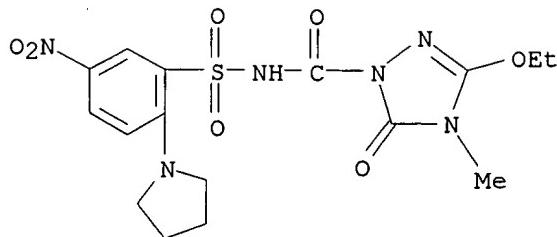
CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-4-methyl-3-(methylthio)-N-[[5-nitro-2-(1-pyrrolidinyl)phenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



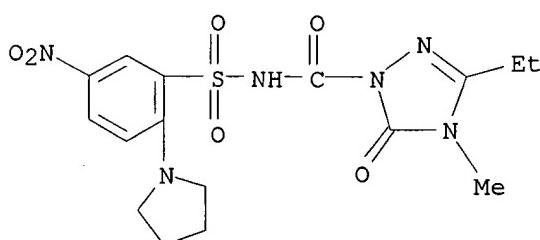
RN 196964-80-4 CAPPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethoxy-4,5-dihydro-4-methyl-N-[[5-nitro-2-(1-pyrrolidinyl)phenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)

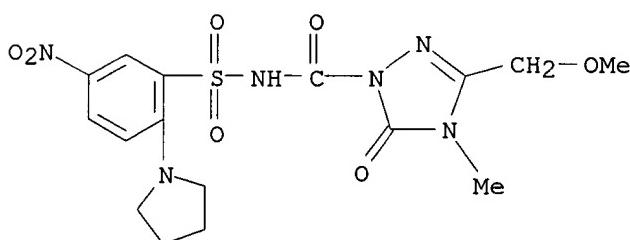
09/868,930



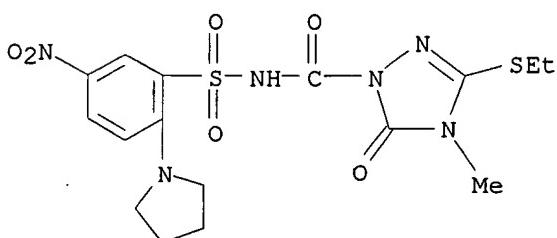
RN 196964-81-5 CAPLUS
CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethyl-4,5-dihydro-4-methyl-N-[(5-nitro-2-(1-pyrrolidinyl)phenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-82-6 CAPLUS
CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-3-(methoxymethyl)-4-methyl-N-[(5-nitro-2-(1-pyrrolidinyl)phenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



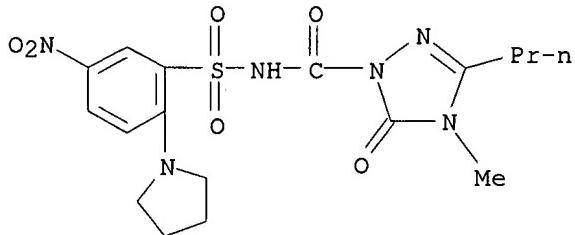
RN 196964-83-7 CAPLUS
CN 1H-1,2,4-Triazole-1-carboxamide, 3-(ethylthio)-4,5-dihydro-4-methyl-N-[(5-nitro-2-(1-pyrrolidinyl)phenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-84-8 CAPLUS

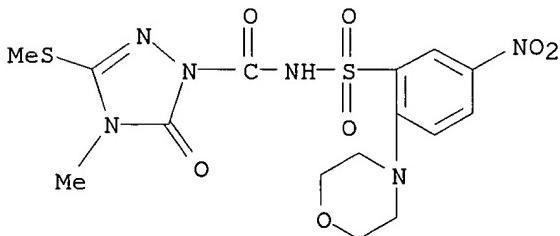
09/868, 930

CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-4-methyl-N-[[5-nitro-2-(1-pyrrolidinyl)phenyl]sulfonyl]-5-oxo-3-propyl- (9CI) (CA INDEX NAME)



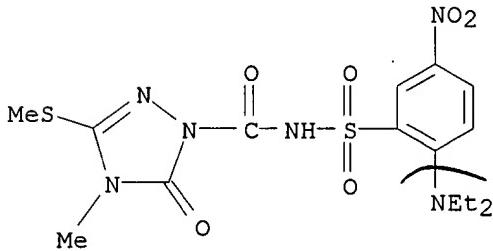
RN 196964-88-2 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-4-methyl-3-(methylthio)-N-[[2-(4-morpholinyl)-5-nitrophenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



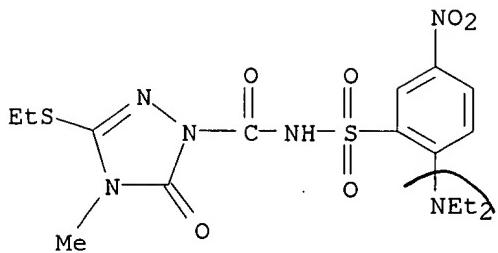
RN 196964-91-7 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[[2-(diethylamino)-5-nitrophenyl]sulfonyl]-4,5-dihydro-4-methyl-3-(methylthio)-5-oxo- (9CI) (CA INDEX NAME)



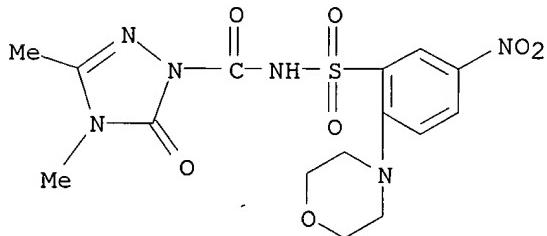
RN 196964-92-8 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[[2-(diethylamino)-5-nitrophenyl]sulfonyl]-3-(ethylthio)-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



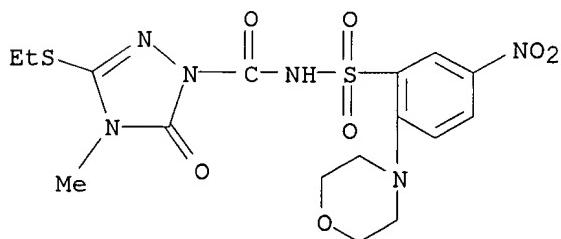
RN 196964-93-9 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-3,4-dimethyl-N-[(2-(4-morpholinyl)-5-nitrophenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-94-0 CAPLUS

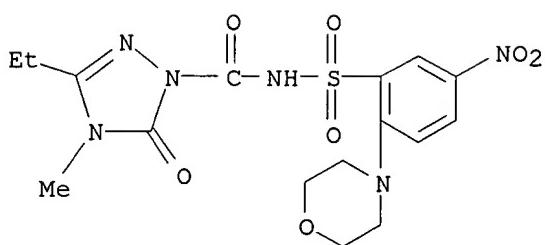
CN 1H-1,2,4-Triazole-1-carboxamide, 3-(ethylthio)-4,5-dihydro-4-methyl-N-[(2-(4-morpholinyl)-5-nitrophenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-95-1 CAPLUS

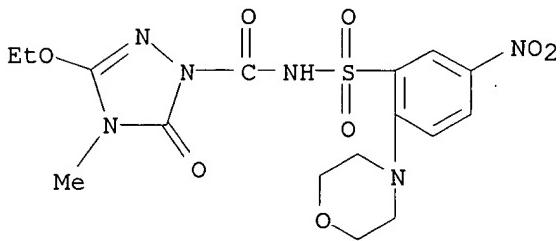
CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethyl-4,5-dihydro-4-methyl-N-[(2-(4-morpholinyl)-5-nitrophenyl)sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)

09/868, 930



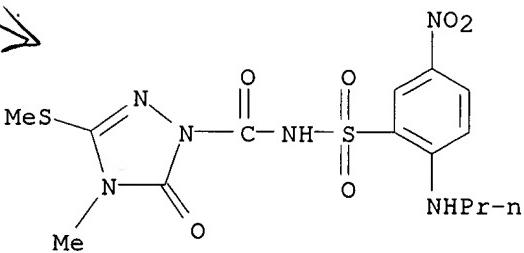
RN 196964-96-2 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethoxy-4,5-dihydro-4-methyl-N-[2-(4-morpholinyl)-5-nitrophenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-97-3 CAPLUS

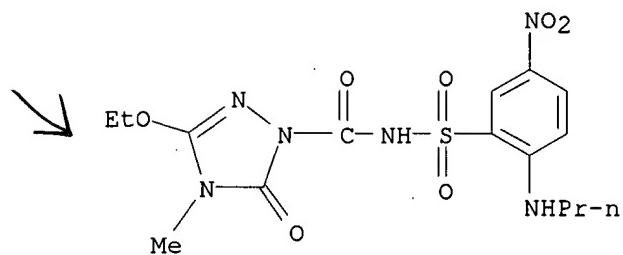
CN 1H-1,2,4-Triazole-1-carboxamide, 4,5-dihydro-4-methyl-3-(methylthio)-N-[5-nitro-2-(propylamino)phenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196964-98-4 CAPLUS

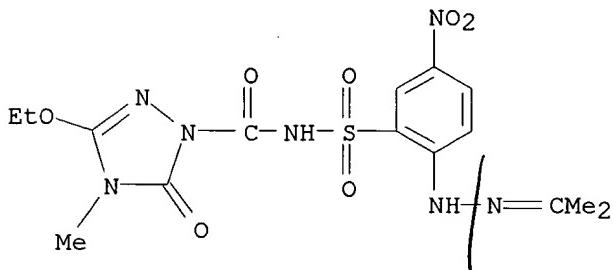
CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethoxy-4,5-dihydro-4-methyl-N-[5-nitro-2-(propylamino)phenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)

09/868, 930



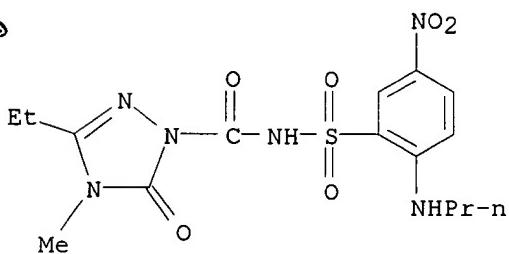
RN 196965-02-3 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethoxy-4,5-dihydro-4-methyl-N-[2-[(1-methylethylidene)hydrazino]-5-nitrophenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196965-03-4 CAPLUS

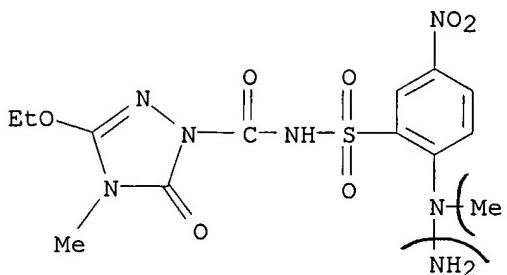
CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethyl-4,5-dihydro-4-methyl-N-[5-nitro-2-(propylamino)phenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)



RN 196965-04-5 CAPLUS

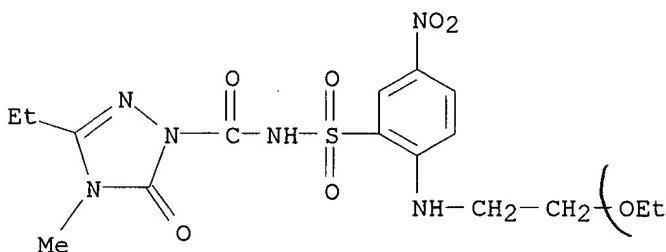
CN 1H-1,2,4-Triazole-1-carboxamide, 3-ethoxy-4,5-dihydro-4-methyl-N-[2-(1-methylhydrazino)-5-nitrophenyl]sulfonyl]-5-oxo- (9CI) (CA INDEX NAME)

09/868,930



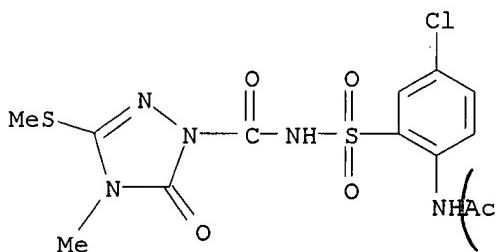
RN 196965-05-6 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[2-[(2-ethoxyethyl)amino]-5-nitrophenyl]sulfonyl]-3-ethyl-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



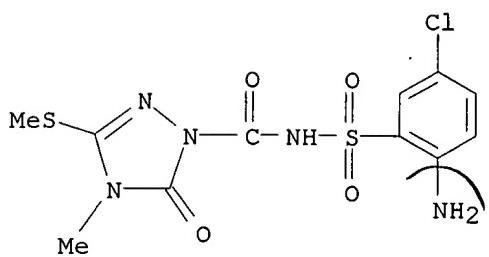
RN 196965-26-1 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[2-(acetylamino)-5-chlorophenyl]sulfonyl]-4,5-dihydro-4-methyl-3-(methylthio)-5-oxo- (9CI) (CA INDEX NAME)



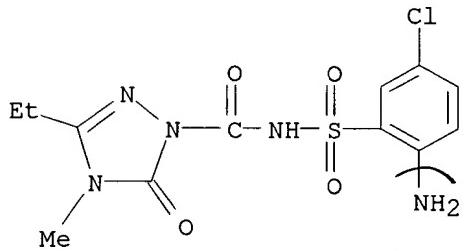
RN 196965-33-0 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(2-amino-5-chlorophenyl)sulfonyl]-4,5-dihydro-4-methyl-3-(methylthio)-5-oxo- (9CI) (CA INDEX NAME)



RN 196965-34-1 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(2-amino-5-chlorophenyl)sulfonyl]-3-ethyl-4,5-dihydro-4-methoxy-5-oxo- (9CI) (CA INDEX NAME)



09/868,930

X43 ANSWER 5 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1997:191906 CAPLUS

DN 126:186088

TI Preparation of 2-[(phenylsulfonyl)aminocarbonyl]-1,2,4-triazol-3-ones and analogs as herbicides

IN Mueller, Klaus-Helmut; Kirsten, Rolf; Gesing, Ernst R. F.; Kluth, Joachim; Drewes, Mark Wilhelm; Findeisen, Kurt; Jansen, Johannes R.; Koenig, Klaus; Riebel, Hans-Jochem; Schallner, Otto; Dollinger, Markus; Santel, Hans-Joachim

PA Bayer A.-G., Germany

SO Ger. Offen., 115 pp.

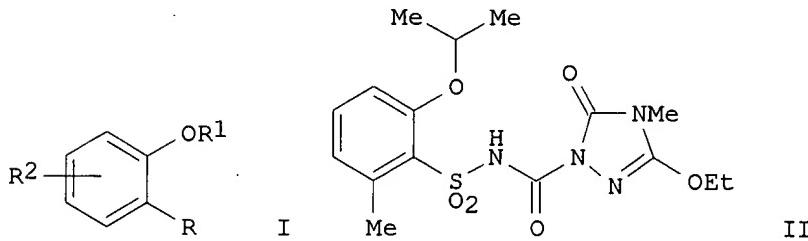
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19525162	A1	19970116	DE 1995-19525162	19950711
	CA 2226669	AA	19970130	CA 1996-2226669	19960628
	WO 9703056	A1	19970130	WO 1996-EP2826	19960628
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9665146	A1	19970210	AU 1996-65146	19960628
	AU 703153	B2	19990318		
	EP 842157	A1	19980520	EP 1996-924805	19960628
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	CN 1198159	A	19981104	CN 1996-196753	19960628
	CN 1086696	B	20020626		
	BR 9609902	A	19990629	BR 1996-9902	19960628
	JP 11508595	T2	19990727	JP 1996-505456	19960628
	ZA 9605841	A	19970131	ZA 1996-5841	19960710
	US 6251831	B1	20010626	US 1998-223246	19981230
	CN 1316418	A	20011010	CN 2001-101527	20010117
	US 6525211	B1	20030225	US 2001-838812	20010420
PRAI	DE 1995-19525162	A	19950711		
	WO 1996-EP2826	W	19960628		
	US 1998-6686	B1	19980108		
	US 1998-223246	A3	19981230		
OS	MARPAT	126:186088			
GI					



AB Title compds. [I; R = ZSO2NHC(:X)R3; R1 = H, CHO, (un)substituted

09/868,930

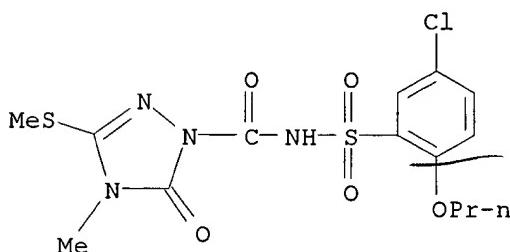
alk(en)yl, acyl, etc.; R₂ = halo, cyano, alkyl, alkoxy, etc.; R₃ = heterocyclyl; X = O or S; Z = bond, O, S, (alkyl)imino, etc.] were prepd. as herbicides (no data). Thus, Ph 5-ethoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one-2-carboxylate was amidated by 2,6-Me(Me₂HCO)C₆H₃SO₂NH₂ to give title compd. II.

IT 187467-87-4P 187467-88-5P 187467-89-6P
187469-72-3P 187469-73-4P 187469-74-5P
187469-75-6P 187469-76-7P 187469-77-8P
187469-78-9P 187469-79-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 2-[(phenylsulfonyl)aminocarbonyl]-1,2,4-triazol-3-ones and analogs as herbicides)

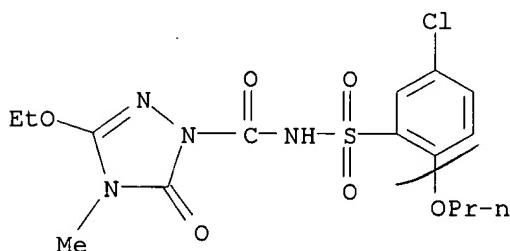
RN 187467-87-4 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-propoxypyhenyl)sulfonyl]-4,5-dihydro-4-methyl-3-(methylthio)-5-oxo- (9CI) (CA INDEX NAME)



RN 187467-88-5 CAPLUS

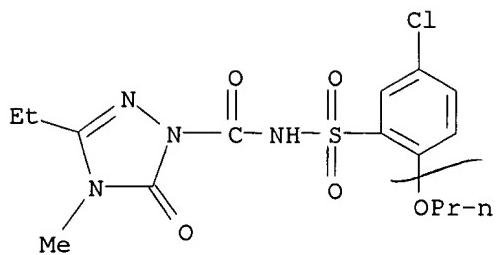
CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-propoxypyhenyl)sulfonyl]-3-ethoxy-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



RN 187467-89-6 CAPLUS

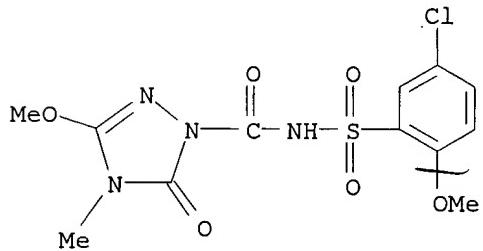
CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-propoxypyhenyl)sulfonyl]-3-ethyl-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)

09/868, 930



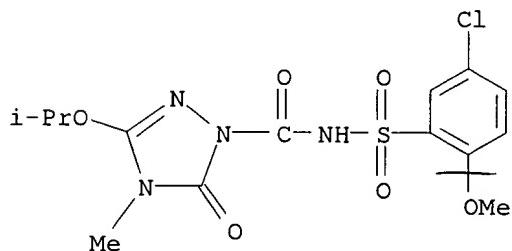
RN 187469-72-3 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-4,5-dihydro-3-methoxy-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



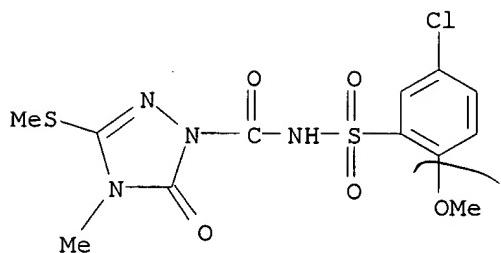
RN 187469-73-4 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-4,5-dihydro-4-methyl-3-(1-methylethoxy)-5-oxo- (9CI) (CA INDEX NAME)



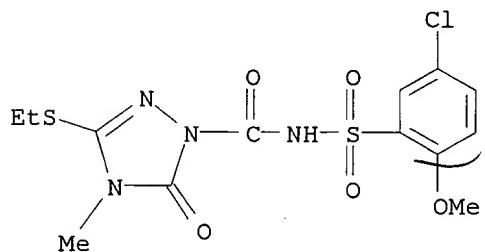
RN 187469-74-5 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-4,5-dihydro-4-methyl-3-(methylthio)-5-oxo- (9CI) (CA INDEX NAME)



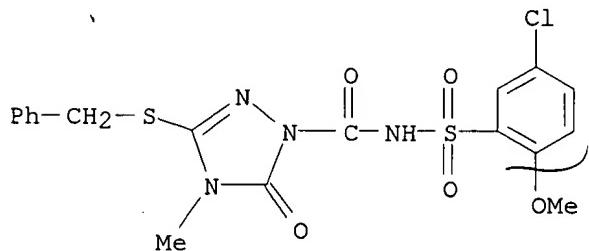
RN 187469-75-6 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(ethylthio)-4,5-dihydro-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



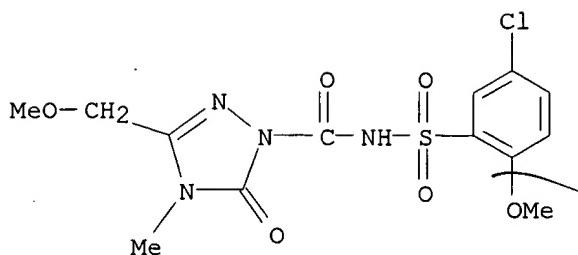
RN 187469-76-7 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-4,5-dihydro-4-methyl-5-oxo-3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



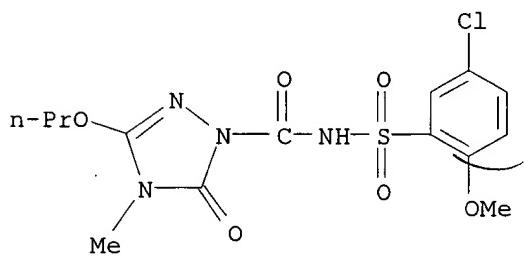
RN 187469-77-8 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl)sulfonyl]-4,5-dihydro-3-(methoxymethyl)-4-methyl-5-oxo- (9CI) (CA INDEX NAME)



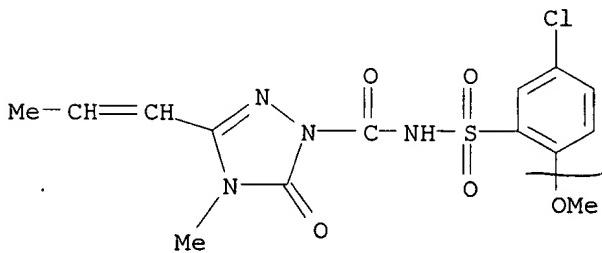
RN 187469-78-9 CAPLUS

CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl) sulfonyl] - 4,5-dihydro-4-methyl-5-oxo-3-propoxy- (9CI) (CA INDEX NAME)



RN 187469-79-0 CAPLUS

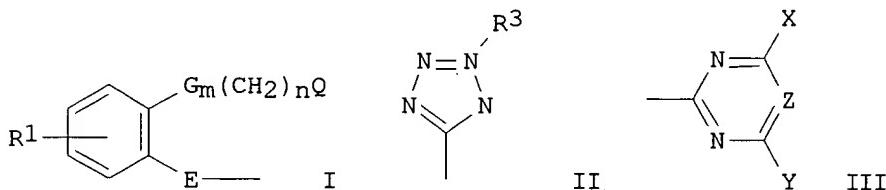
CN 1H-1,2,4-Triazole-1-carboxamide, N-[(5-chloro-2-methoxyphenyl) sulfonyl] - 4,5-dihydro-4-methyl-5-oxo-3-(1-propenyl)- (9CI) (CA INDEX NAME)



09/868,930

ANSWER 6 OF 44 CAPLUS COPYRIGHT 2003 ACS
1995:618187 CAPLUS
DN 123:3395
TI Herbicidal sulfonamides
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 238 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1095549	A	19941130	CN 1994-103847	19861124
PRAI CN 1994-103847		19861124		
GI				



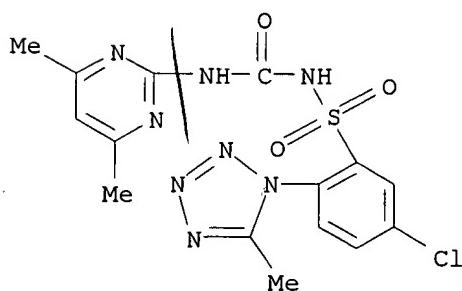
AB Sulfonamides JSO2NHC(:W)N(R)A (J = J-1, I, to J-6, wherein W = O or S; G = O, S, SO, or SO2; m = 0 or 1; n = 0, 1, or 2; R = H or CH3; E = single bond, CH2, or O; R = H or CH3; Q = Q-1, II, to Q-7, wherein R1 to R5, etc., are further defined; A = A-1, III, to A-6, wherein X, Y, etc., are defined) are useful for the prepn. of herbicides. Also given is the chem. prepn. of the sulfonamides. Sixty-three sulfonamide herbicides are prepd. and their herbicidal activities were shown.

IT 107130-30-3P 107130-31-4P 107130-32-5P
107130-33-6P 107130-34-7P 107130-35-8P
107130-36-9P

RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of herbicidal sulfonamides)

RN 107130-30-3 CAPLUS

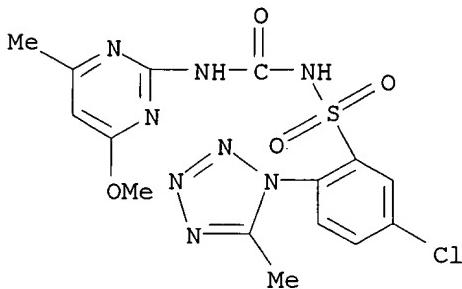
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



09/868,930

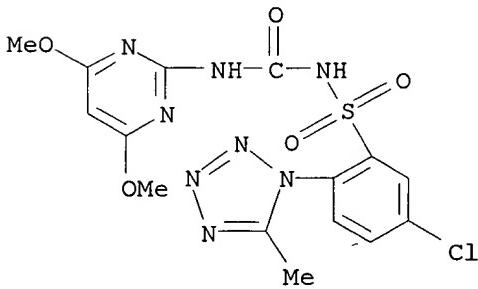
RN 107130-31-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



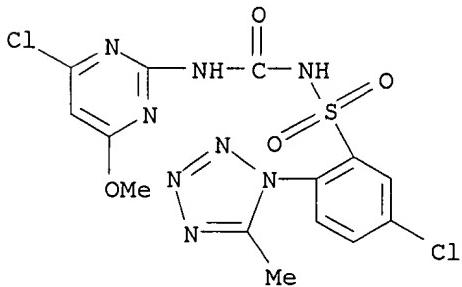
RN 107130-32-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-33-6 CAPLUS

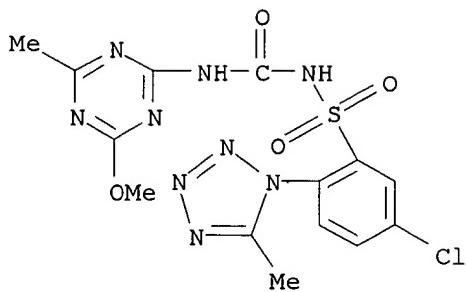
CN Benzenesulfonamide, 5-chloro-N-[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-34-7 CAPLUS

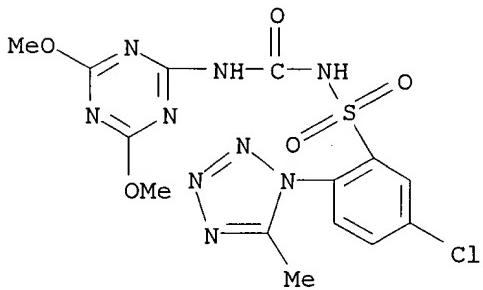
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

09/868,930



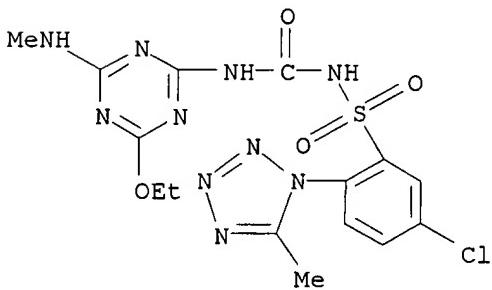
RN 107130-35-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



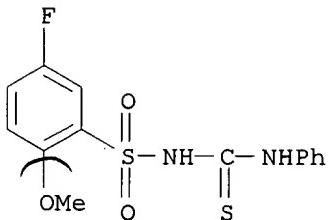
RN 107130-36-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-ethoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

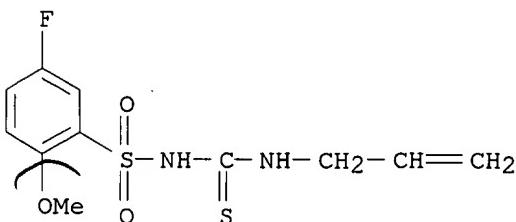


09/868,930

~~LA3~~ ANSWER 7 OF 44 CAPLUS COPYRIGHT 2003 ACS
~~AN~~ 1992:434584 CAPLUS
~~DN~~ 117:34584
TI Acidity and thermodynamic metal complex stability constants of arylsulfonylthioureas
AU Schlebe, Andrea; Tschwatschal, Frank; Dietze, Frank; Thomas, Philipp
CS Fachbereich Chem., Univ. Leipzig, Leipzig, D-7010, Germany
SO Journal fuer Praktische Chemie (Leipzig) (1991), 333(3), 501-3
CODEN: JPCEAO; ISSN: 0021-8383
DT Journal
LA German
AB Ligand ionization consts. and divalent metal (Ni, Co, Zn, Cd, Pb) complex stability consts. were detd. for some arylsulfonylthioureas ($RR'C_6H_3SO_2NHCSNHR'$; R = H, 4-Me, 2-Cl, 2-MeO; R' = H, 5-Me, 5-F; R" = Ph, allyl, 2-pyridyl) by pH-metric titrn. at 298 K and ionic strength 0.1 (Me_4NNO_3) in 75 vol.% aq. dioxane. The MINIQUAD program (P. Gans, et al. 1976) was used to treat the exptl. data. Stability consts. ($\log \beta_{\text{II}}$) follow the H. Irring-J. Williams (1948) order. The cations Pb(II), Cd, and Zn coordinate to S and to the N atom adjacent to the SO_2 group, while Ni(II) and Co(II) bond to SO_2 O and to the S atom.
IT 138686-61-0 138686-63-2
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(ionization of, in aq. dioxane)
RN 138686-61-0 CAPLUS
CN Benzenesulfonamide, 5-fluoro-2-methoxy-N-[(phenylamino)thioxomethyl]-
(9CI) (CA INDEX NAME)



RN 138686-63-2 CAPLUS
CN Benzenesulfonamide, 5-fluoro-2-methoxy-N-[(2-propenylamino)thioxomethyl]-
(9CI) (CA INDEX NAME)



09/868,930

L43 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1992:74882 CAPLUS

DN 116:74882

TI New arylsulfonylthioureas and their nickel(II) complexes

AU Thomas, Philipp; Schlebe, Andrea; Seidel, Andreas; Hennig, Horst

CS Sekt. Chem., Univ. Leipzig, Leipzig, D-7010, Germany

SO Journal fuer Praktische Chemie (Leipzig) (1991), 333(4), 657-60

CODEN: JPCEAO; ISSN: 0021-8383

DT Journal

LA German

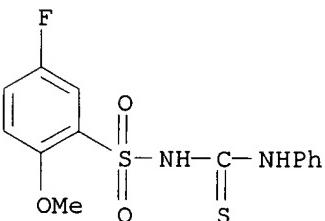
AB RSO₂NHC(S)NHR₁ (I; R = 2-ClC₆H₄, 2-MeO-5-MeC₆H₃, 5-F-2-MeOC₆H₃, R₁ = Ph, allyl) were prep'd. from RSO₂NH₂ and R₁NCS. NiL₂ (HL = I) were also prep'd. I (R = 2-ClC₆H₄; R₁ = 2-pyridyl) was prep'd. by initially cleaning pyridyl isothiocyanate dimer, followed by reaction with 2-chlorobenzenesulfonamide or by the reaction of 2-chlorobenzenesulfonyl isothiocyanate with 2-aminopyridine. NiL₁₂ (HL₁ = I (R = Ph, 4-MeC₆H₄, R₁ = Ph) were also prep'd. The ligands and complexes were characterized by IR spectra.

IT 138686-61-0P 138686-63-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep'n. of)

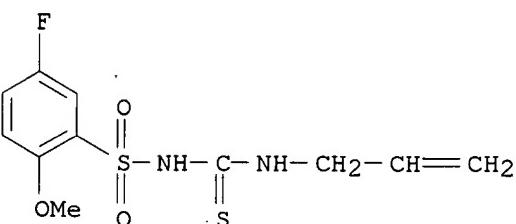
RN 138686-61-0 CAPLUS

CN Benzenesulfonamide, 5-fluoro-2-methoxy-N-[(phenylamino)thioxomethyl]-(9CI) (CA INDEX NAME)



RN 138686-63-2 CAPLUS

CN Benzenesulfonamide, 5-fluoro-2-methoxy-N-[(2-propenylamino)thioxomethyl]-(9CI) (CA INDEX NAME)

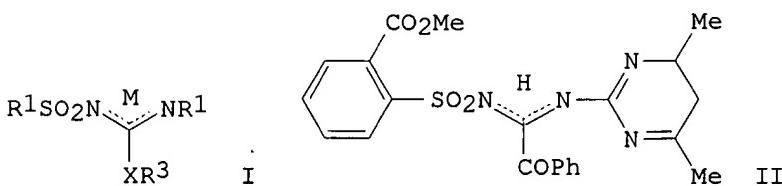


09/868,930

L48 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1989:497282 CAPLUS
Correction of: 1986:478956
DN 111:97282
Correction of: 105:78956
TI Sulfonyliso(thio)urea derivatives
IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
Jochem; Roy, Wolfgang; et al.
PA Bayer A.-G., Fed. Rep. Ger.
SO Ger. Offen., 236 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3517844	A1	19860313	DE 1985-3517844	19850517
	EP 173957	A1	19860312	EP 1985-110833	19850819
	EP 173957	B1	19890118		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	AT 40123	E	19890215	AT 1985-110833	19850819
	US 4840661	A	19890620	US 1985-769272	19850823
	AU 8546665	A1	19860306	AU 1985-46665	19850826
	AU 573888	B2	19880623		
	DD 238318	A5	19860820	DD 1985-280078	19850828
	CA 1221696	A1	19870512	CA 1985-489585	19850828
	CH 664958	A	19880415	CH 1985-3725	19850828
	DK 8503937	A	19860301	DK 1985-3937	19850829
	JP 61069764	A2	19860410	JP 1985-188708	19850829
	HU 38225	A2	19860528	HU 1985-3269	19850829
	BR 8504152	A	19860624	BR 1985-4152	19850829
	ZA 8506579	A	19860625	ZA 1985-6579	19850829
	ES 546553	A1	19860301	ES 1985-546553	19850830
	US 4988379	A	19910129	US 1989-293275	19890104
PRAI	DE 1984-3431921		19840830		
	DE 1985-3517844		19850517		
	EP 1985-110833		19850819		
	US 1985-769272		19850823		

GI



AB The sulfonyl iso(thio)urea derivs. I [R1 = (un)substituted alkyl, aralkyl, aryl, heteroaryl; R2 = (un)substituted N-contg. 6-membered heterocyclic radical; R3 = (un)substituted aryl or heteroaryl; X = S, O; M = H, metal] are prep'd. as herbicides (no data). Thus, a mixt. of N'-(4,6-dimethylpyrimidin-2-yl)-N''-(4,6-dimethylpyrimidin-2-yl)-N'''-methoxy-N'''-bis(2-

09/868,930

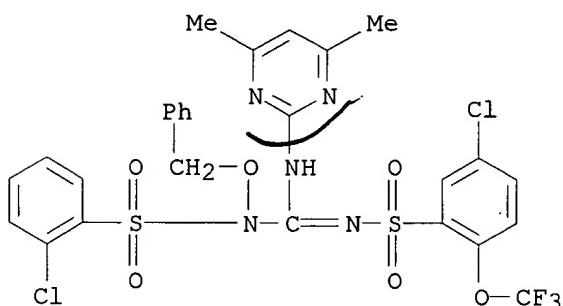
methoxycarbonylbenzenesulfonyl)guanidine (prepn. given), PhONa, EtOH, and H₂O was stirred at 50.degree., for 10 h, to give II.

IT 103355-72-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with alcs. and mercaptans)

RN 103355-72-2 CAPLUS

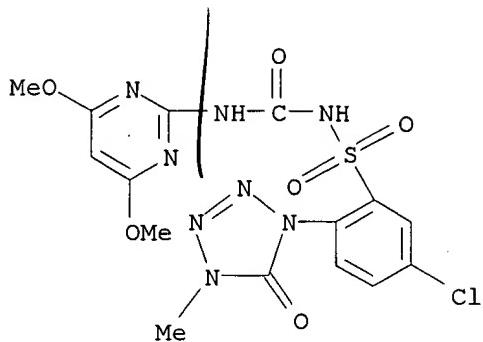
CN Benzenesulfonamide, 2-chloro-N-[[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)



09/868,930

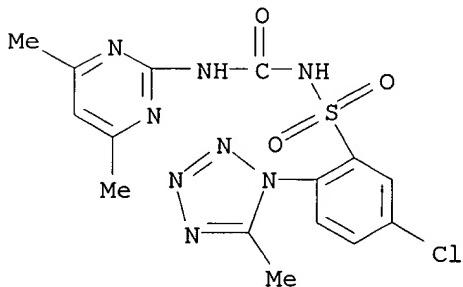
L43 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1989:212832 CAPLUS
DN 110:212832
TI Preparation, testing, and formulation of (tetrazolylalkylaryl)sulfonylureas as herbicides
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 97 pp. Cont.-in-part of U.S. 4,746,353.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4786311	A	19881122	US 1987-114584	19871030
	ZA 8604055	A	19880127	ZA 1986-4055	19860530
	JP 62242679	A2	19871023	JP 1986-201916	19860829
	JP 05046344	B4	19930713		
	US 4746353	A	19880524	US 1986-934118	19861124
	US 4913726	A	19900403	US 1988-238781	19880831
	US 5017214	A	19910521	US 1989-436581	19891115
	JP 03041007	A2	19910221	JP 1990-175433	19900704
	JP 05020401	B4	19930319		
	JP 03041078	A2	19910221	JP 1990-175434	19900704
	JP 2529012	B2	19960828		
PRAI	US 1985-739214		19850530		
	US 1986-849618		19860411		
	US 1986-934118		19861124		
	US 1987-114584		19871030		
	US 1988-238781		19880831		
OS	CASREACT 110:212832; MARPAT 110:212832				
AB	R ₂ SO ₂ NHC(:W)NRR ₁ [I; R = H, Me; R ₁ = (substituted) triazinyl, triazinylmethyl, pyrimidinyl, triazolyl; R ₂ = (oxo)tetrazolylalkylaryl; aryl = Ph, PhCH ₂ , PhO, thienyl, pyrazolyl, pyridyl, etc.; W = O, S, imino], useful as herbicides, were prepd. 2-(5-Methyl-1H-tetrazol-1-yl)benzenesulfonamide (prepn given) and Ph (4,6-dimethoxy-1,3,5-triazin-2-yl)(methyl)carbamate in MeCN were treated with DBU and the mixt. was kept at room temp for 4 h to give N-[(N-4,6-dimethoxy-1,3,5-triazin-2-yl)-N-methylamino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)benzenesulfonamide (II). Several I at 0.01 kg/ha postemergent were completely effective against morningglory and cocklebur. An oil suspension was prepd. contg. II 25, polyoxyethylene sorbitol hexaoleate 5, and aliph. hydrocarbon oil 70 wt%.				
IT	107129-65-7P 107130-30-3P 107130-31-4P 107130-32-5P 107130-33-6P 107130-34-7P 107130-35-8P 107130-36-9P 107130-40-5P 120162-42-7P				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)				
RN	107129-65-7 CAPLUS				
CN	Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)				



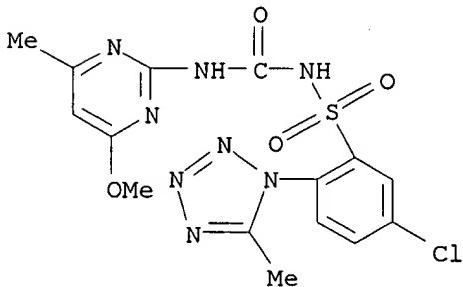
RN 107130-30-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



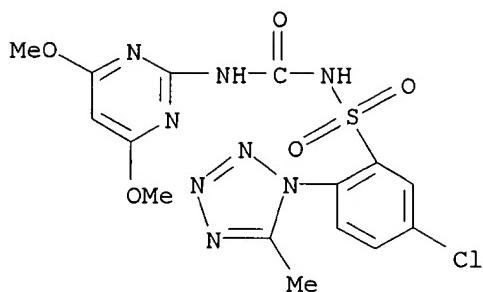
RN 107130-31-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



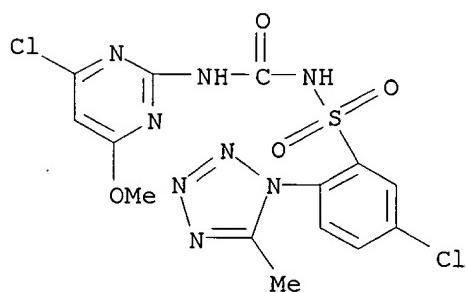
RN 107130-32-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



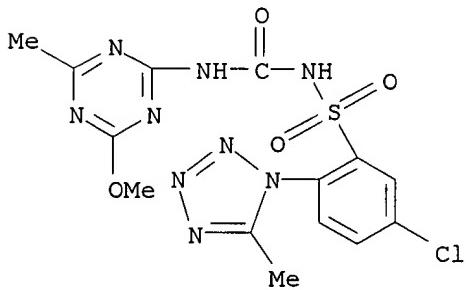
RN 107130-33-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



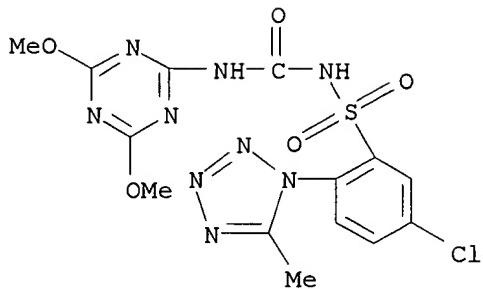
RN 107130-34-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



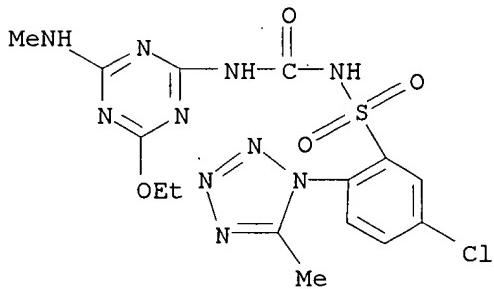
RN 107130-35-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



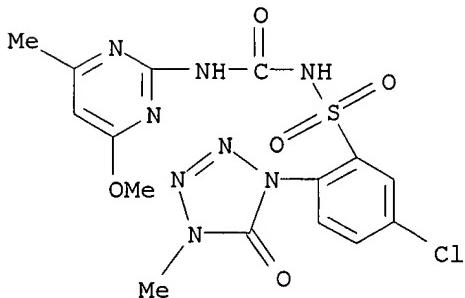
RN 107130-36-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-ethoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-40-5 CAPLUS

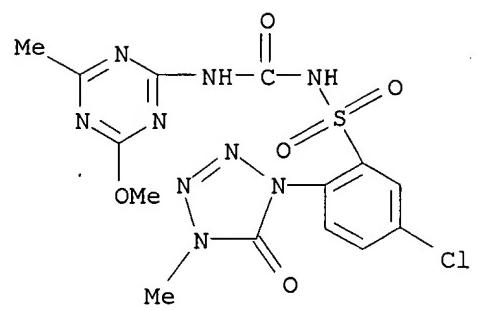
CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[[4-methoxy-6-methyl-2-pyrimidinyl]amino]carbonyl- (9CI) (CA INDEX NAME)



RN 120162-42-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl- (9CI) (CA INDEX NAME)

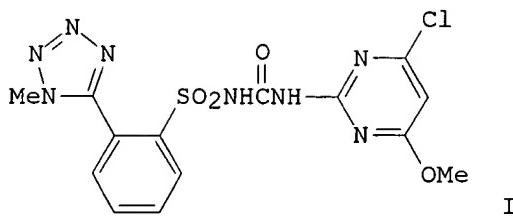
09/868,930



09/868,930

~~143~~ ANSWER 11 OF 44 CAPLUS COPYRIGHT 2003 ACS
AM 1989:173240 CAPLUS
DN 110:173240
TI Tetrazole-containing sulfonylureas, their herbicidal compositions, and
their use in weed control
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 92 pp. Cont.-in-part of U.S. Ser. No. 849,618, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4746353	A	19880524	US 1986-934118	19861124
	CA 1231336	A1	19880112	CA 1986-509793	19860522
	BR 8602412	A	19870121	BR 1986-2412	19860527
	DK 8602521	A	19861201	DK 1986-2521	19860529
	NO 8602137	A	19861201	NO 1986-2137	19860529
	HU 41227	A2	19870428	HU 1986-2267	19860529
	HU 201452	B	19901128		
	ES 555484	A1	19870701	ES 1986-555484	19860529
	IL 78962	A1	19891215	IL 1986-78962	19860529
	SU 1660571	A3	19910630	SU 1986-4027542	19860529
	AU 8658093	A1	19861204	AU 1986-58093	19860530
	AU 581317	B2	19890216		
	JP 62030756	A2	19870209	JP 1986-123875	19860530
	ZA 8604055	A	19880127	ZA 1986-4055	19860530
	JP 62242679	A2	19871023	JP 1986-201916	19860829
	JP 05046344	B4	19930713		
	ES 557392	A1	19880216	ES 1987-557392	19870213
	JP 63185906	A2	19880801	JP 1987-265502	19871022
	US 4786311	A	19881122	US 1987-114584	19871030
	US 4913726	A	19900403	US 1988-238781	19880831
	US 5017214	A	19910521	US 1989-436581	19891115
	JP 03041007	A2	19910221	JP 1990-175433	19900704
	JP 05020401	B4	19930319		
	JP 03041078	A2	19910221	JP 1990-175434	19900704
	JP 2529012	B2	19960828		
	JP 06016507	A2	19940125	JP 1992-239993	19920817
	JP 06039364	B4	19940525		
	JP 06025228	A2	19940201	JP 1992-240027	19920817
PRAI	US 1985-739214		19850530		
	US 1986-849618		19860411		
	US 1986-934118		19861124		
	US 1987-114584		19871030		
	US 1988-238781		19880831		
OS	CASREACT 110:173240; MARPAT 110:173240				
GI					



AB Sulfonylureas $Q(CH_2)_nGmXESO_2NHC(:W)NRA$ [I; Q = (un)substituted tetrazolyl; n = 0-2; G = O, S, SO, SO₂; m = 0, 1; X = (un)substituted C₆H₄, thiophenediyl, pyrazolediyl, pyridinediyl; E = bond, CH₂, O; W = O, S, (un)substituted NH; R = H, Me; A = (un)substituted triazinyl or pyrimidinyl, substituted triazolyl or pyridinyl, substituted fused pyrimidinyl] are prep'd. as herbicides and plant growth regulators.

Condensation of 5-(2-amino sulfonylphenyl)-1-methyl-1H-tetrazole with Ph N-(4-chloro-6-methoxypyrimidin-2-yl) carbamate using DBU catalyst in MeCN gave [(chloromethoxypyrimidinyl)aminocarbonyl](methyltetrazolyl)benzenesulfonamide II. At 0.01 kg/ha postemergence, II gave complete control of morning glory, cocklebur, and velvet leaf, without damage to corn. It gave partial (6/10) retardation of growth in wheat at the same rate.

IT 107129-65-7P 107130-30-3P 107130-31-4P

107130-32-5P 107130-33-6P 107130-34-7P

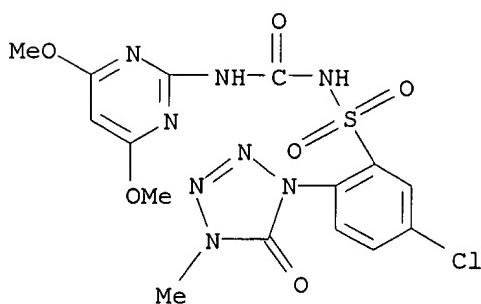
107130-35-8P 107130-36-9P 107130-40-5P

120162-42-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

RN 107129-65-7 CAPLUS

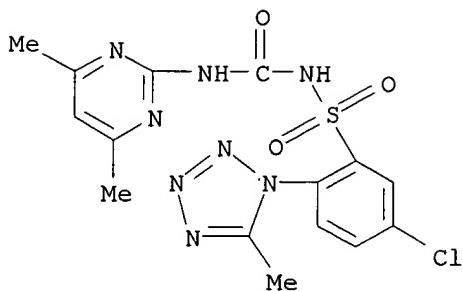
CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 107130-30-3 CAPLUS

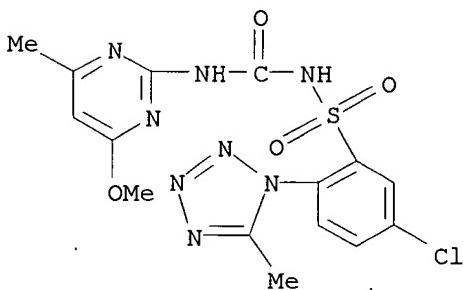
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

09/868,930



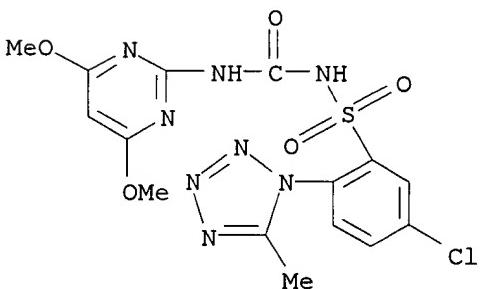
RN 107130-31-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-32-5 CAPLUS

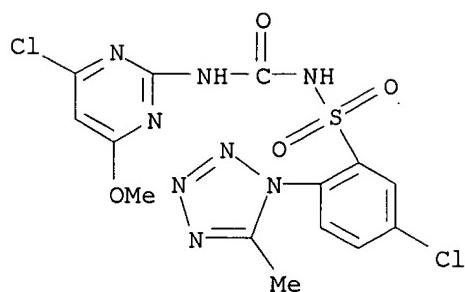
CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-33-6 CAPLUS

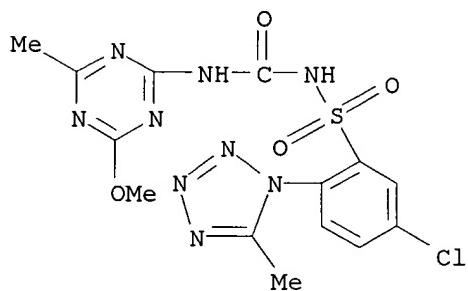
CN Benzenesulfonamide, 5-chloro-N-[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

09/868, 930



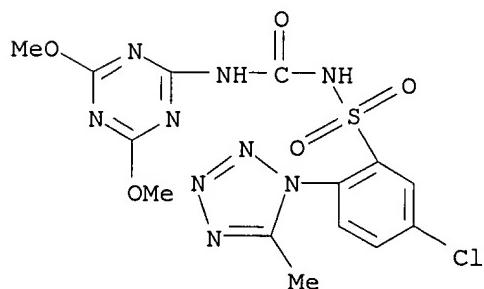
RN 107130-34-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



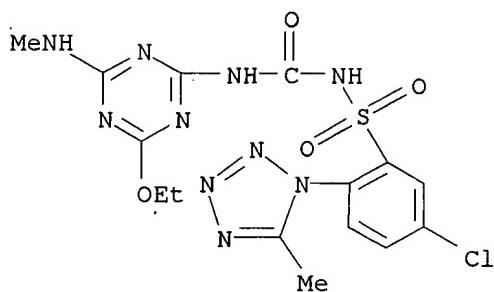
RN 107130-35-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4,6-dimethoxy-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



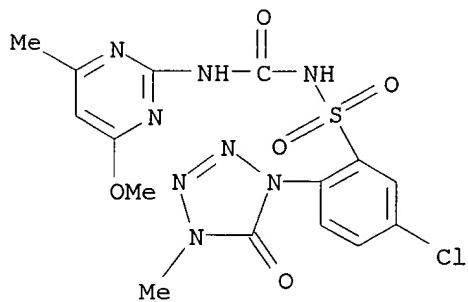
RN 107130-36-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-ethoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



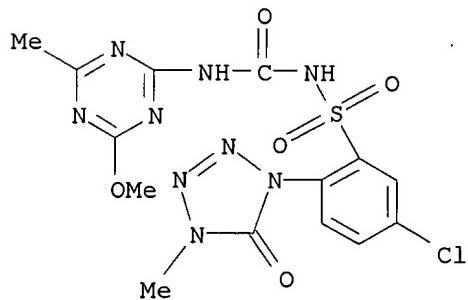
RN 107130-40-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 120162-42-7 CAPLUS

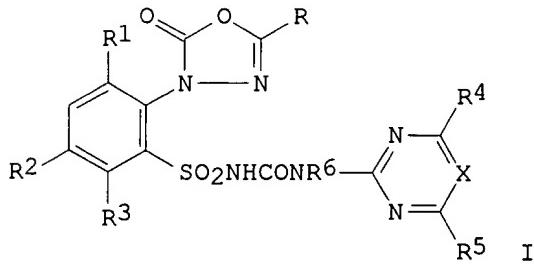
CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



09/868,930

LA3 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1988:473447 CAPLUS
DN 109:73447
TI Preparation and testing of [(oxadiazolylphenyl)sulfonyl] urea herbicides
IN Borrod, Guy; Guigues, Francois
PA Rhone-Poulenc Agrochimie, Fr.
SO Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 246984	A2	19871125	EP 1987-420117	19870504
	EP 246984	A3	19880302		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FR 2598416	A1	19871113	FR 1986-6794	19860507
	FR 2605007	A2	19880415	FR 1986-14279	19861010
	JP 62263178	A2	19871116	JP 1987-108759	19870501
	ZA 8703213	A	19871230	ZA 1987-3213	19870505
	DK 8702311	A	19871108	DK 1987-2311	19870506
	FI 8702000	A	19871108	FI 1987-2000	19870506
	AU 8772527	A1	19871112	AU 1987-72527	19870506
	BR 8702317	A	19880217	BR 1987-2317	19870506
	HU 44138	A2	19880229	HU 1987-2035	19870506
	DD 256255	A5	19880504	DD 1987-302502	19870506
	CN 87103399	A	19871216	CN 1987-103399	19870507
PRAI	FR 1986-6794		19860507		
	FR 1986-14279		19861010		
OS	CASREACT	109:73447			
GI					



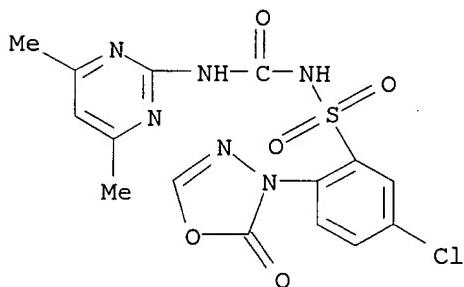
AB The title compds. [I; R = H, (halo)alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl; R1-R3 = H, halo, (halo)alkyl, alkoxy(carbonyl); R4, R5 = halo, (halo)alkyl, alkoxy; R6 = H, alkyl; X = CH, N] were prepd. as herbicides. 2-(2,3-Dihydro-2-oxo-1,3,4-oxadiazol-3-yl)benzenesulfonamide (prepn. given) was treated with COCl₂ and BuNCO in xylene contg. 1,4-diazobicyclo[2.2.2]octane to give the corresponding benzenesulfonyl isocyanate which was condensed with 2-amino-4,6-dimethylpyrimidine to give I (R-R3 = R6 = H, R4 = R5 = Me, X = CH) (II). In pre- and postemergence tests 125 g II/ha gave 100% control of, e.g., Echinochloa crus-galli and Lolium multiflorum. Application formulations are given.
IT 115673-34-2P 115673-35-3P 115673-36-4P
115673-37-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except

09/868,930

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

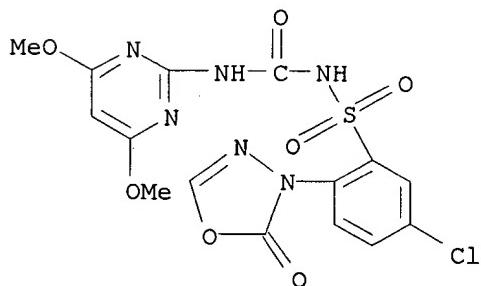
RN 115673-34-2 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(2-oxo-1,3,4-oxadiazol-3(2H)-yl)-(9CI) (CA INDEX NAME)



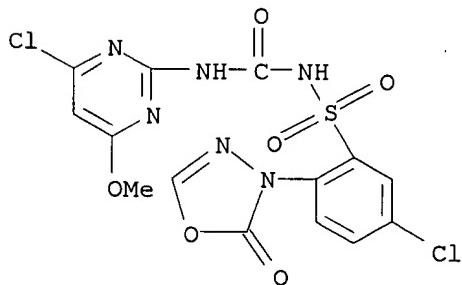
RN 115673-35-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(2-oxo-1,3,4-oxadiazol-3(2H)-yl)-(9CI) (CA INDEX NAME)



RN 115673-36-4 CAPLUS

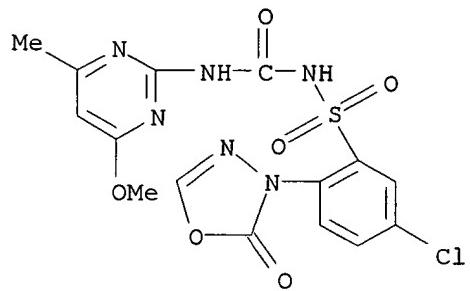
CN Benzenesulfonamide, 5-chloro-N-[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(2-oxo-1,3,4-oxadiazol-3(2H)-yl)-(9CI) (CA INDEX NAME)



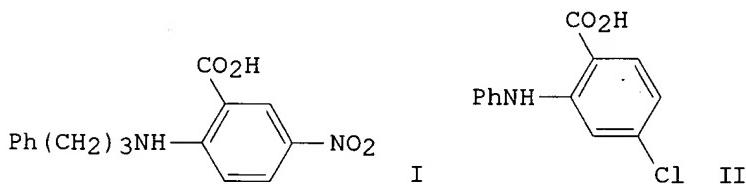
RN 115673-37-5 CAPLUS

09/868, 930

CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-oxo-1,3,4-oxadiazol-3(2H)-yl)-(9CI) (CA INDEX NAME)

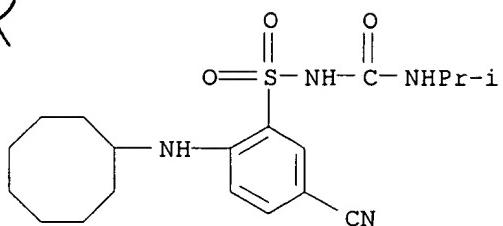


D43 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:489293 CAPLUS
 DN 107:89293
 TI Chloride-channel blockers in the thick ascending limb of the loop of Henle. Structure-activity relationship
 AU Wangemann, P.; Wittner, M.; Di Stefano, A.; Englert, H. C.; Lang, H. J.; Schlatter, E.; Greger, R.
 CS Max-Planck-Inst. Biophys., Frankfurt/Main, D-6000, Fed. Rep. Ger.
 SO Pfluegers Archiv (1986), 407(Suppl. 2), S128-S141
 CODEN: PFLABK; ISSN: 0031-6768
 DT Journal
 LA English
 GI



AB On the basis of previous findings with diphenylamine-2-carboxylate a search for compds. which possess an even higher affinity for the Cl⁻-channels in the basolateral membrane of the thick ascending limb of the loop of Henle has been conducted. To quantify the inhibitory potency, measurements of the equiv. short circuit current, corresponding to the secondary active transport of Cl⁻ and measurements of the voltage across the basolateral membrane have been performed. A survey of 219 compds. reveals that relatively simple modifications in the structure of diphenylamine-2-carboxylate led to very potent blockers such as 5-nitro-2-(3-phenylpropylamino)benzoate (I) which inhibits the short circuit current half maximally (IC50) at 8.10⁻⁸ mol/L. Structure activity studies suggest that these Cl⁻ channel blockers possess several sites of interaction: The neg. charged carboxylate group, the secondary amine group which probably carries a pos. partial charge, and for the very potent agents (e.g. I and 5-chlorodiphenylamine-2-carboxylic acid (II)) an addnl. neg. partial charge at the resp. -Cl or -NO₂ substituent. Finally, also an apolar interaction with an cycloalkyl or cycloaryl residue seems to be required, and this site of interaction has a defined spacing from the secondary amino N.

IT 107946-57-6
 RL: BIOL (Biological study)
 (chloride channel blocking activity of, structure in relation to)
 RN 107946-57-6 CAPLUS
 CN Benzenesulfonamide, 5-cyano-2-(cyclooctylamino)-N-[[[(1-methylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)

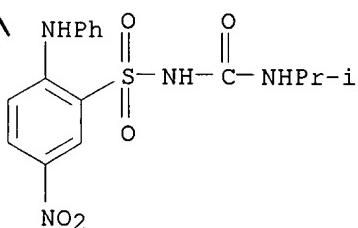
R

IT 106944-67-6P 106961-20-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and chloride channel blocking activity of, structure in
 relation to)

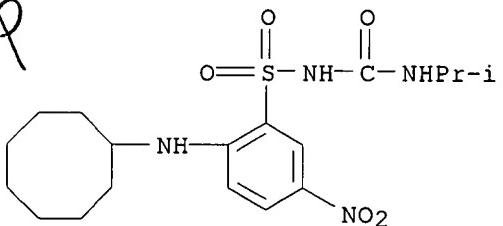
RN 106944-67-6 CAPLUS

CN Benzenesulfonamide, N-[[[(1-methylethyl)amino]carbonyl]-5-nitro-2-(phenylamino)- (9CI) (CA INDEX NAME)

R

RN 106961-20-0 CAPLUS

CN Benzenesulfonamide, 2-(cyclooctylamino)-N-[[[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)

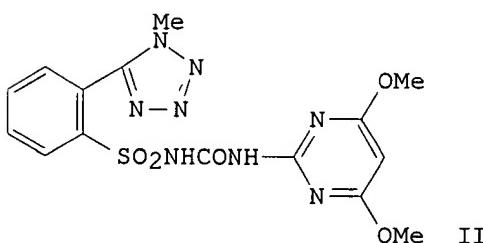
R

09/868,930

DN3 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1987:138453 CAPLUS
DN 106:138453
TI Herbicidal [(tetrazolylphenyl)sulfonyl]ureas
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO Eur. Pat. Appl., 190 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 204513	A2	19861210	EP 1986-304075	19860529
	EP 204513	A3	19880720		
	EP 204513	B1	19910717		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	CA 1231336	A1	19880112	CA 1986-509793	19860522
	BR 8602412	A	19870121	BR 1986-2412	19860527
	DK 8602521	A	19861201	DK 1986-2521	19860529
	NO 8602137	A	19861201	NO 1986-2137	19860529
	HU 41227	A2	19870428	HU 1986-2267	19860529
	HU 201452	B	19901128		
	ES 555484	A1	19870701	ES 1986-555484	19860529
	IL 78962	A1	19891215	IL 1986-78962	19860529
	SU 1660571	A3	19910630	SU 1986-4027542	19860529
	AT 65161	E	19910815	AT 1986-304075	19860529
	AU 8658093	A1	19861204	AU 1986-58093	19860530
	AU 581317	B2	19890216		
	JP 62030756	A2	19870209	JP 1986-123875	19860530
	ZA 8604055	A	19880127	ZA 1986-4055	19860530
	JP 62242679	A2	19871023	JP 1986-201916	19860829
	JP 05046344	B4	19930713		
	ES 557392	A1	19880216	ES 1987-557392	19870213
	JP 03041007	A2	19910221	JP 1990-175433	19900704
	JP 05020401	B4	19930319		
	JP 03041078	A2	19910221	JP 1990-175434	19900704
	JP 2529012	B2	19960828		
PRAI	US 1985-739214		19850530		
	US 1986-849618		19860411		
	EP 1986-304075		19860529		

GI



AB R₃ZSO₂NHC(:W)NR₁R₂ [I; R₁ = H, Me; R₂ = N-heterocyclyl; R₃ = substituted

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Ph, pyridinyl, pyrazolyl, thiienyl; W = O, S; Z = bond, O, S] were prep'd. as herbicides. Thus, 2-(1-methyl-1H-tetrazol-5-yl)benzenesulfonamide condensed with Ph 4,6-dimethoxy-2-pyrimidinecarbamate to give sulfonylurea II. II gave complete control of morning glory at 0.05 kg/ha postemergent.

IT 107129-65-7P 107130-30-3P 107130-31-4P

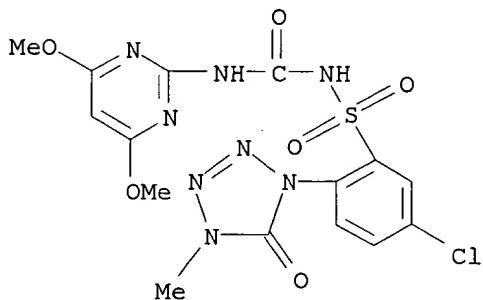
107130-32-5P 107130-33-6P 107130-34-7P

107130-35-8P 107130-36-9P 107130-40-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

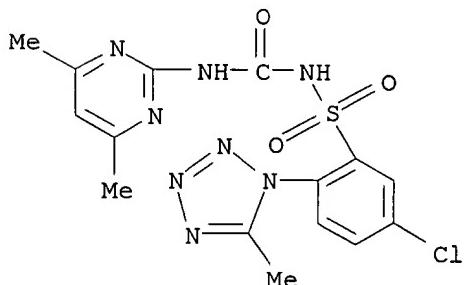
RN 107129-65-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 107130-30-3 CAPLUS

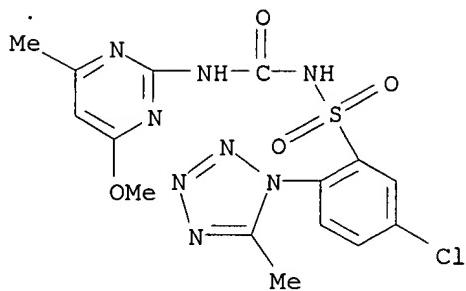
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-31-4 CAPLUS

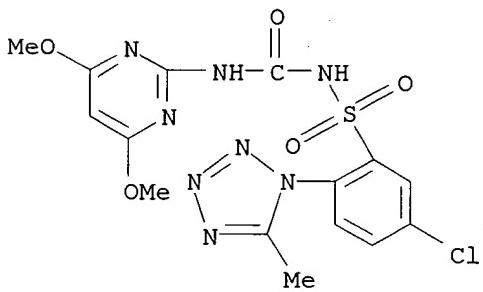
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

09/868,930



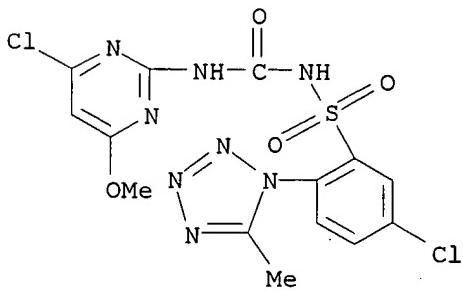
RN 107130-32-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-33-6 CAPLUS

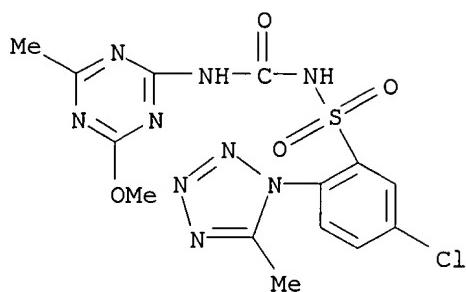
CN Benzenesulfonamide, 5-chloro-N-[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-34-7 CAPLUS

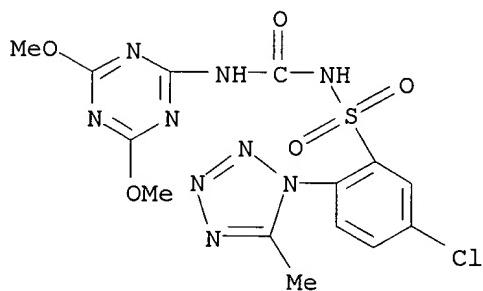
CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

09/868,930



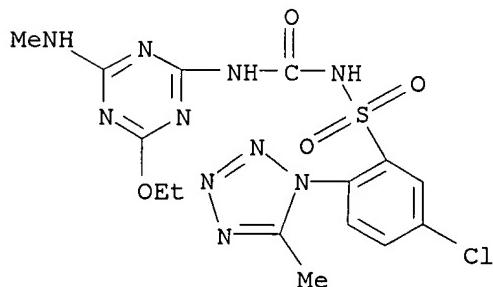
RN 107130-35-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-36-9 CAPLUS

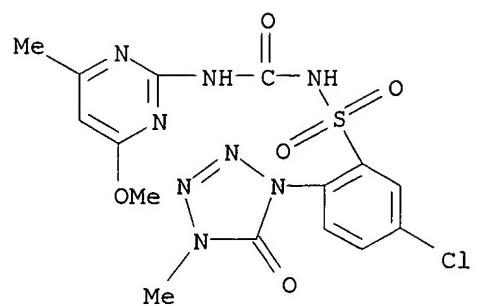
CN Benzenesulfonamide, 5-chloro-N-[[[4-ethoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]-2-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)



RN 107130-40-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)

09/868, 930



09/868,930

143 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2003 ACS
AM 1987:95588 CAPLUS
DN 106:95588

TI Analogs of torasemide - structure function relationships - experiments in the thick ascending limb of the loop of Henle of rabbit nephron

AU Wittner, M.; Di Stefano, A.; Wangemann, P.; Delarge, J.; Liegeois, J. F.; Greger, R.

CS Max Planck Inst. Biophys., Frankfurt, D-6000/70, Fed. Rep. Ger.

SO Pfluegers Archiv (1987), 408(1), 54-62
CODEN: PFLABK; ISSN: 0031-6768

DT Journal

LA English

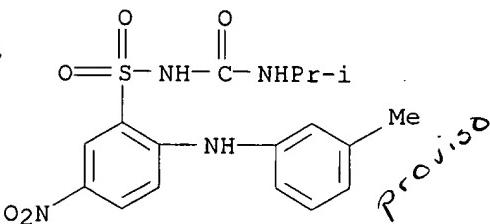
AB The aim of the present study was to examine compds. related to torasemide [56211-40-6] with respect to their ability to block the equiv. short circuit current, corresponding to the rate of Cl⁻ reabsorption, in isolated in vitro perfused cortical thick ascending limbs of Henle of the rabbit. The torasemide mol. was modified with respect to the anionic sulfonylurea group, and the secondary amine linked to the pyridine ring. Only a few of the tested 48 torasemide-related compds. were able to inhibit from both epithelial sides like torasemide. Only a few of the tested compds. were equally effective as torasemide from the lumen side. Some analogs act only from the luminal side and some only from the peritubular side. The correlations between structure and potency of inhibition from the luminal side allow the following conclusions. The secondary amine moiety linked to the pyridine ring (toluidine in case of torasemide) can be replaced by a cycloalkylamine or, with some loss of inhibitory potency, by alkylamines. The inhibitory potency is increased with the no. of C-atoms in the cycloalkylamine substituted compds. (optimum C7 to C8), and is also depending on the length of the alkylamines (optimum C4). The secondary amine seems to be required since N cannot be replaced by -S- or -SO₂- . The sulfonylurea group cannot be substituted by the other anionic groups such as -SO₃- or -CO-. If the pyridine ring is replaced by a NO₂-substituted Ph ring, the inhibitory potency from the luminal side is lost. However, these compds. act still (with some loss of potency) from the peritubular side. Several of the conclusions drawn from previous systematic surveys of Cl⁻ channel blockers and loop diuretics of the furosemide type, i.e. blockers of the Na⁺2Cl⁻-K⁺ carrier, hold also true for compds. related to torasemide. In addn., the pyridine ring is responsible for some specific structure activity correlations.

IT 106944-66-5 106944-67-6 106961-20-0

RL: BIOL (Biological study)
(diuresis from, chloride reabsorption in)

RN 106944-66-5 CAPLUS

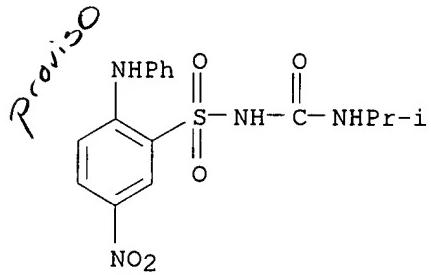
CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-2-[(3-methylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



RN 106944-67-6 CAPLUS

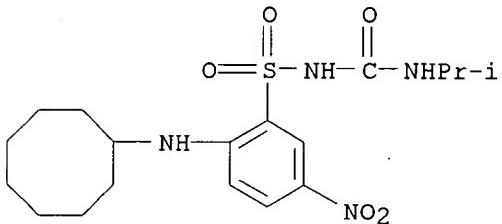
09/868,930

CN Benzenesulfonamide, N-[(1-methylethyl)amino]carbonyl]-5-nitro-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 106961-20-0 CAPLUS

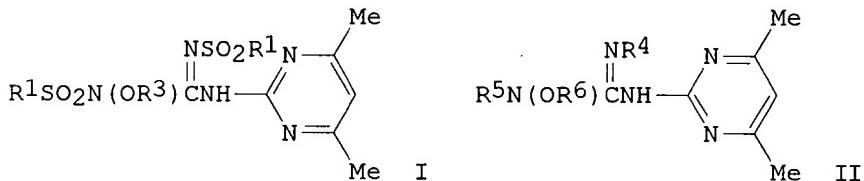
CN Benzenesulfonamide, 2-(cyclooctylamino)-N-[(1-methylethyl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



09/868,930

L43 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1987:18592 CAPLUS
DN 106:18592
TI Unsymmetrical pyrimidinylsulfonylguanidines
IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
Jochem; Roy, Wolfgang; et al.
PA Bayer A.-G., Fed. Rep. Ger.
SO Eur. Pat. Appl., 114 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 173317	A1	19860305	EP 1985-110828	19850819
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	DE 3519091	A1	19860313	DE 1985-3519091	19850528
PRAI	DE 1984-3431915		19840830		
	DE 1985-3519091		19850528		
OS	CASREACT 106:18592				
GI					



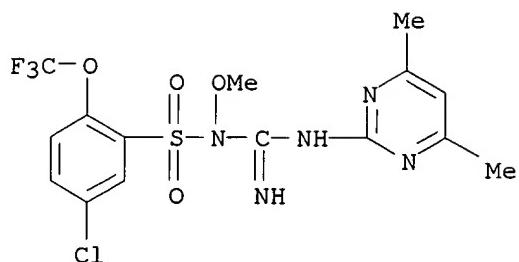
AB The title compds. [I; R₁, R₂ = amino, (un)substituted alkyl, alkenyl, alkoxy, alkenyloxy, Ph, PhCH₂; R₃ = (un)substituted alkyl, alkenyl, Ph, Ph₂CH, Ph(CH₂)_m; m = 0-2], their metal salts and tautomeric forms, were prep'd. as herbicides (no data). Thus, 2-(cyanoamino)-4,6-dimethylpyrimidine was condensed with MeONH₂.HCl to give pyrimidinylguanidine II (R₄ = R₅ = H, R₆ = Me). This was acylated with 2-F₃CO₂H₄SO₂Cl to give II (R₄ = H, R₅ = SO₂C₆H₄OCF₃-2, R₆ = Me). The latter was acylated with 2-ClC₆H₄SO₂Cl to give II (R₄ = SO₂C₆H₄Cl-2, R₅ = SO₂C₆H₄OCF₃-2, R₆ = Me).

IT 103525-84-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and benzenesulfonylation of)

RN 103525-84-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]iminomethyl-N-methoxy-2-(trifluoromethoxy)-(9CI) (CA INDEX NAME)

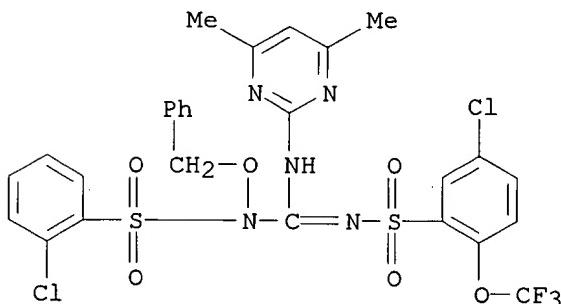


IT 103355-72-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

RN 103355-72-2 CAPLUS

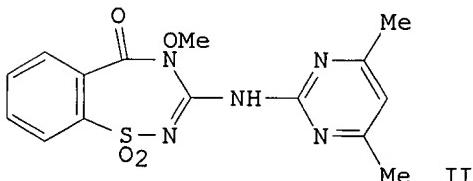
CN Benzenesulfonamide, 2-chloro-N-[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)



L43 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1986:626614 CAPLUS
 DN 105:226614
 TI Asymmetric sulfonylguanidines
 IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
 Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
 Jochem; Roy, Wolfgang; et al.
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 113 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3519091	A1	19860313	DE 1985-3519091	19850528
EP 173317	A1	19860305	EP 1985-110828	19850819
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AU 8546662	A1	19860306	AU 1985-46662	19850826
DD 238191	A5	19860813	DD 1985-280077	19850828
DK 8503935	A	19860301	DK 1985-3935	19850829
JP 61060663	A2	19860328	JP 1985-188702	19850829
ZA 8506580	A	19860430	ZA 1985-6580	19850829
BR 8504147	A	19860812	BR 1985-4147	19850829
ES 546548	A1	19860301	ES 1985-546548	19850830
PRAI DE 1984-3431915		19840830		
DE 1985-3519091		19850528		

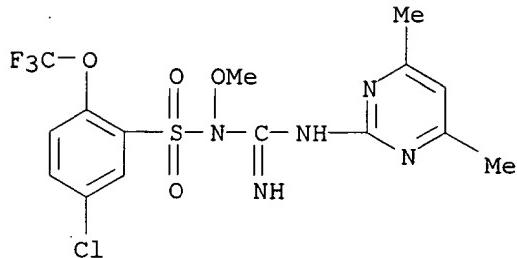
GI



- AB Asym. sulfonylguanidines I [1 of A1, A2 = 2-R1C6H4(CH2)n; n = 0, 1; R1 = H, cyano, NO₂, (substituted) C1-4 alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, etc.; the other of A1, A2 = (substituted) C1-12 alkyl, alkoxy, C2-12 alkenyl, alkenyloxy, C1-8 alkylamino, etc.; R = (substituted) C1-12 alkyl, C3-6 alkenyl, C1-4 alkoxy carbamoyl, Ph, PhCH₂, etc.; M = H or metal equiv.] and their 1:1 adducts with strong acids are prepd. as herbicides. For example, 2-chlorocarbonylbenzenesulfonyl chloride reacted with N'-(4,6-dimethylpyrimidin-2-yl)-N''-methoxyguanidine to form II. Reaction of II with BuNH₂ yielded N'-(4,6-dimethylpyrimidin-2-yl)-N''-methoxy-N'''-(2-butylaminocarbonyl)benzenesulfonyl guanidine, which condensed with 2-chlorobenzenesulfonyl chloride to produce I (A1 = 2-BuNHCOOC₆H₄; A2 = 2-ClC₆H₄; R = Me; M = H).
 IT 103525-84-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and reaction of)
 RN 103525-84-4 CAPLUS
 CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-

09/868,930

pyrimidinyl)amino]iminomethyl]-N-methoxy-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

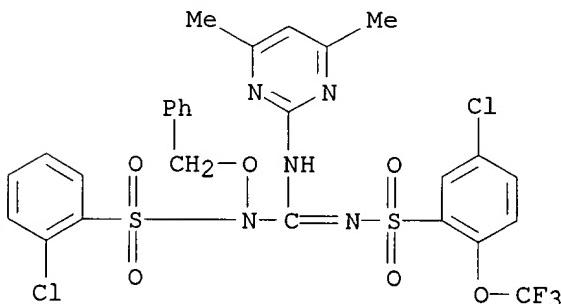


IT 103355-72-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

RN 103355-72-2 CAPLUS

CN Benzenesulfonamide, 2-chloro-N-[[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)

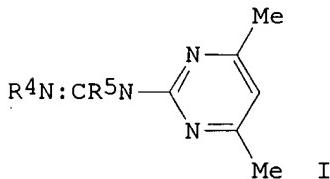


09/868,930

L48 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1986:533901 CAPLUS
DN 105:133901
TI Heteroarylsulfonyliso(thio)ureas
IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
Jochem; Roy, Wolfgang; et al.
PA Bayer A.-G. , Fed. Rep. Ger.
SO Eur. Pat. Appl., 237 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 173957	A1	19860312	EP 1985-110833	19850819
EP 173957	B1	19890118		
R: AT, BE, DE, FR, GB, IT, NL, SE				
DE 3517844	A1	19860313	DE 1985-3517844	19850517
AT 40123	E	19890215	AT 1985-110833	19850819
PRAI DE 1984-3431921		19840830		
DE 1985-3517844		19850517		
EP 1985-110833		19850819		

GI



AB R1SO2N:C(NHR2)XR3 [R1 = (un)substituted alkyl, aralkyl, aryl, heteroaryl; R2 = (un)substituted heteroaryl which contains .gtoreq.1 N; R3 = (un)substituted (hetero)aryl; X = S, O], their tautomeric forms and metal salts, were prep'd. as herbicides (no data). Thus, H2NC(:NH)NHCN was

cyclocondensed with (MeCO)2CH2 to give 70% 2-(cyanamino)-4,6-dimethylpyrimidine, which was condensed with MeONH2.HCl to give 55% methoxyguanidine I (R4 = H, R5 = NHOMe). This was sulfonylated to give 51% I (R4 = 2-ClC6H4SO2, R5 = N(OMe)O2SC6H4Cl-2) which underwent substitution with 4-ClC6H4SH to give 26% I (R4 = 2-ClC6H4SO2, R5 = 4-ClC6H4S).

IT 103355-72-2P

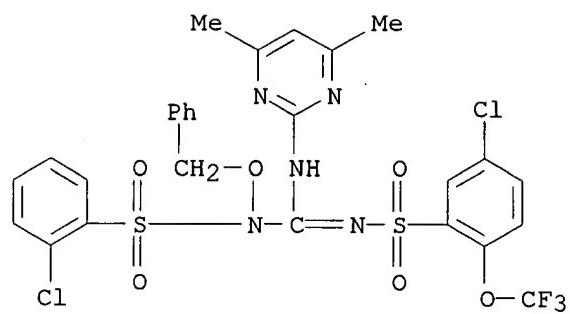
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and substitution reaction of, with phenolates and thiophenolates)

RN 103355-72-2 CAPLUS

CN Benzenesulfonamide, 2-chloro-N-[[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)

09/868,930

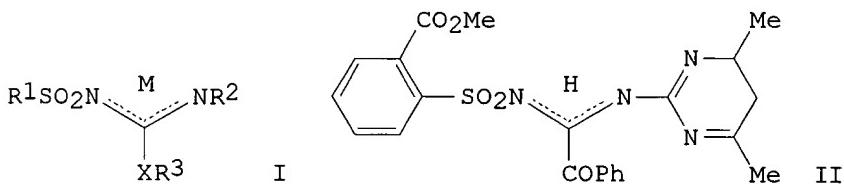


09/868,930

L73 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1986:478956 CAPLUS
DN 105:78956
TI Sulfonyliso(thio)urea derivatives
IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
Jochem; Roy, Wolfgang; et al.
PA Bayer A.-G., Fed. Rep. Ger.
SO Ger. Offen., 236 pp.
CODEN: GWXXBX
DT Patent
LA German

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3517844 A1		19860313	DE 1985-3517844	19850517
PRAI DE 1984-3431921		19840830		

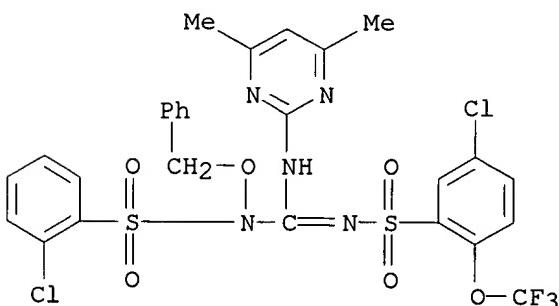
GI



AB The sulfonyl iso(thio)urea derivs. I [R1 = (un)substituted alkyl, aralkyl, aryl, heteroaryl; R2 = (un)substituted N-contg. 6-membered heterocyclic radical; R3 = (un)substituted aryl or heteroaryl; X = S, O; M = H, metal] are prep'd. as herbicides (no data). Thus, a mixt. of N'-(4,6-dimethylpyrimidin-2-yl)-N''-methoxy-N'',N'''-bis(2-methoxycarbonylbenzenesulfonyl)guanidine (prepn. given), PhONa, EtOH, and H2O was stirred at 50.degree., for 10 h, to give II.

IT 103355-72-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with alcs. and mercaptans)

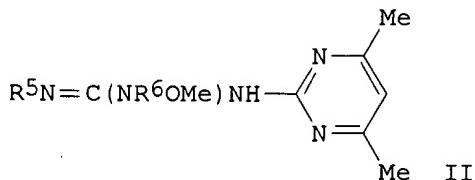
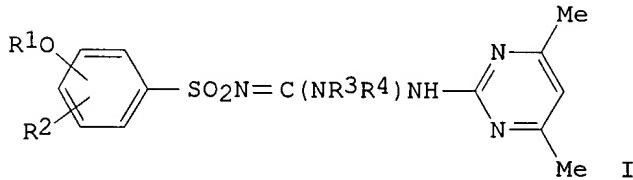
RN 103355-72-2 CAPLUS
CN Benzenesulfonamide, 2-chloro-N-[[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-(phenylmethoxy)-(9CI) (CA INDEX NAME)



09/868,930

PA3 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1986:478953 CAPLUS
DN 105:78953
TI (Fluoroalkoxy)(phenylsulfonyl)guanidines
IN Diehr, Hans Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim;
Mueller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans
Jochem; Roy, Wolfgang; et al.
PA Bayer A.-G., Fed. Rep. Ger.
SO Ger. Offen., 44 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3431916	A1	19860313	DE 1984-3431916	19840830
EP 173318	A1	19860305	EP 1985-110830	19850819
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
US 4725304	A	19880216	US 1985-769182	19850823
AU 8546659	A1	19860306	AU 1985-46659	19850826
DD 238319	A5	19860820	DD 1985-280068	19850828
CA 1227207	A1	19870922	CA 1985-489580	19850828
DK 8503931	A	19860301	DK 1985-3931	19850829
JP 61060664	A2	19860328	JP 1985-188703	19850829
ZA 8506591	A	19860430	ZA 1985-6591	19850829
HU 38322	A2	19860528	HU 1985-3272	19850829
BR 8504148	A	19860624	BR 1985-4148	19850829
ES 546549	A1	19860301	ES 1985-546549	19850830
PRAI DE 1984-3431916		19840830		
OS CASREACT 105:78953				
GI				



AB The title compds. [I; R1 = alkyl, fluoroalkyl, chloroalkyl; R2 = H, halo; R3 = cycloalkyl, alkenyl, alkynyl, (un)substituted alkyl, PhCH2, R2(R1O)C6H3SO2; R4 = H, OH, cycloalkyl, alkenyl, alkynyl, R6O, (un)substituted alkyl, Ph, PhCH2, PhCH2CH2; R6 = alkenyl, (un)substituted alkyl, Ph, PhCH2, PhCH2CH2; R3R4N = (un)substituted heterocyclyl] and their metal salts and tautomeric forms were prep'd. as herbicides (no

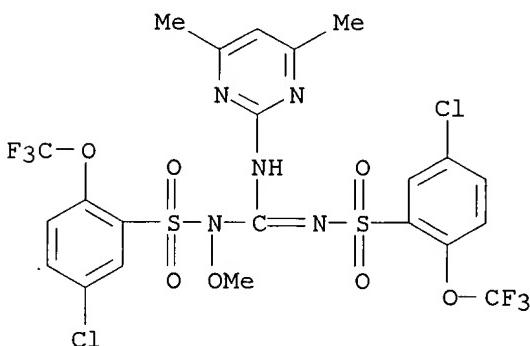
data). Thus, 2-(cyanoamino)-4,6-dimethylpyrimidine was condensed with MeONH₂.HCl to give 55% (methoxyguanidino)pyrimidine II (R₅ = R₆ = H). This was sulfonylated with 2-F₃COC₆H₄SO₂Cl to give 45% II (R₅ = R₆ = SO₂C₆H₄OCF₃-2).

IT 103551-41-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

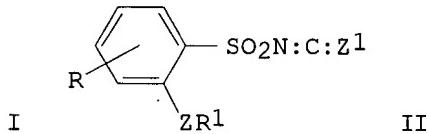
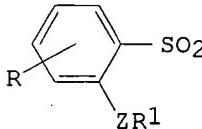
RN 103551-41-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[[5-chloro-2-(trifluoromethoxy)phenyl]sulfonyl]amino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]-N-methoxy-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

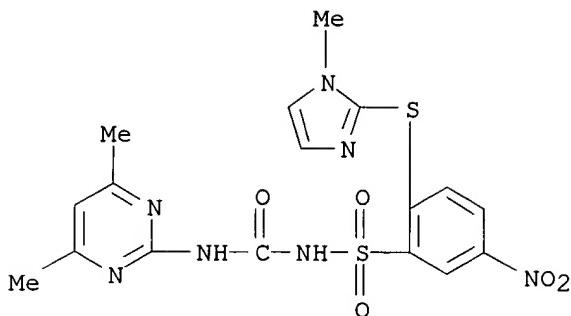


DA3 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AF 1986:104428 CAPLUS
 DN 104:104428
 TI Substituted sulfonylureas
 IN Stetter, Joerg; Wroblowsky, Heinz Juergen; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans Joachim; Luerssen, Klaus; Haenssler, Gerd
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 61 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3413565	A1	19851024	DE 1984-3413565	19840411
	EP 160219	A1	19851106	EP 1985-103859	19850330
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
	JP 60237074	A2	19851125	JP 1985-73652	19850409
	DK 8501622	A	19851012	DK 1985-1622	19850410
	ZA 8502646	A	19851127	ZA 1985-2646	19850410
PRAI	DE 1984-3413565		19840411		
GI					

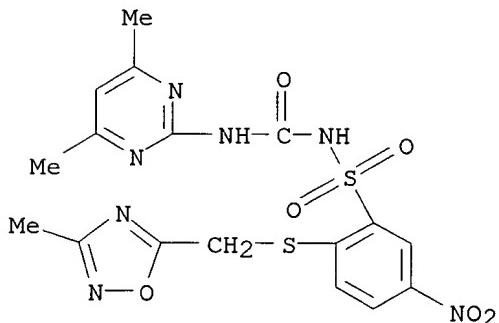


- AB The sulfonylureaazoles I (R = H, halo, Et, NO₂, etc.; R₁ = imidazol-1-yl, pyrazole-1-yl, 1,3,4-oxadiazol-2-yl, pivaloyl, etc.; R₂ = substituted pyrimidin-2-yl or triazin-2-yl etc.; Z = thia- or oxaalkyl or alkenyl, etc.; Z₁ = O, S) are fungicides, herbicides, and plant growth regulators. Thus, I (R = H, R₁ = CMe:NOMe, R₂ = 4-methoxy-6-methylpyrimidin-2-yl, Z = OCH₂, Z₁ = O) inhibited the growth of barley, in pot expts. I are prep'd., i.a., by the condensation of an amine R₂NH₂ with the corresponding sulfonylisocyanate II.
 IT 100555-11-1P 100555-12-2P 100555-13-3P
 100555-14-4P 100555-15-5P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as fungicide and herbicide)
 RN 100555-11-1 CAPLUS
 CN Benzenesulfonamide, N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(1-methyl-1H-imidazol-2-yl)thio]-5-nitro- (9CI) (CA INDEX NAME)



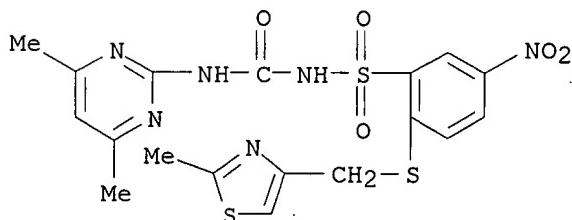
RN 100555-12-2 CAPLUS

CN Benzenesulfonamide, N-[[[4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[[3-methyl-1,2,4-oxadiazol-5-yl)methyl]thio]-5-nitro- (9CI) (CA INDEX NAME)



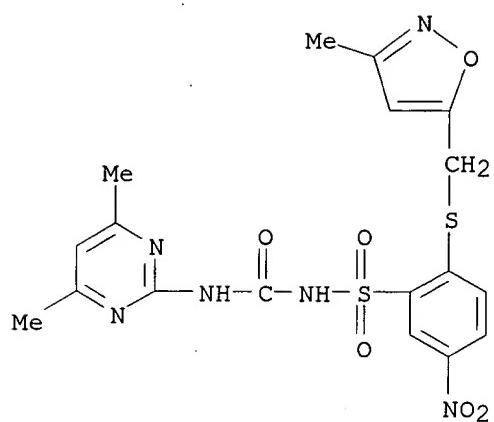
RN 100555-13-3 CAPLUS

CN Benzenesulfonamide, N-[[[4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[[2-methyl-4-thiazolyl)methyl]thio]-5-nitro- (9CI) (CA INDEX NAME)



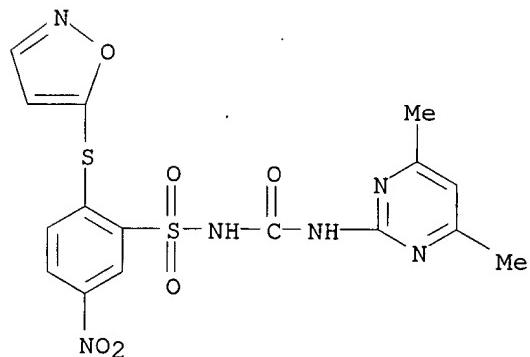
RN 100555-14-4 CAPLUS

CN Benzenesulfonamide, N-[[[4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[[3-methyl-5-isoxazolyl)methyl]thio]-5-nitro- (9CI) (CA INDEX NAME)



RN 100555-15-5 CAPLUS

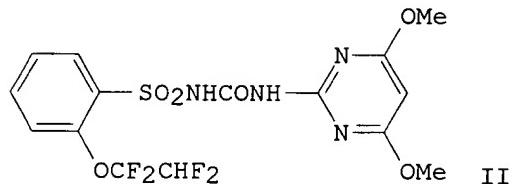
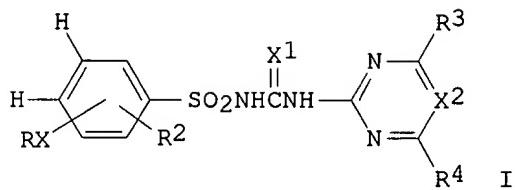
CN Benzenesulfonamide, N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(5-isoxazolylthio)-5-nitro- (9CI) (CA INDEX NAME)



09/868,930

ANSWER 22 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1984:551873 CAPLUS
DN 101:151873
TI Herbicidal sulfonamides
IN Adams, John B., Jr.
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 31 pp. Cont.-in-part of U.S. Ser. No. 60,869, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4452628	A	19840605	US 1980-152021	19800530
	DK 8002515	A	19810127	DK 1980-2515	19800611
	BR 8004547	A	19810203	BR 1980-4547	19800722
	CA 1128043	A1	19820720	CA 1980-356687	19800722
	EP 23422	A2	19810204	EP 1980-302536	19800724
	EP 23422	A3	19810408		
	EP 23422	B1	19840222		
	R: BE, DE, FR, GB, IT, LU, NL, SE				
	JP 56036467	A2	19810409	JP 1980-100636	19800724
	EP 64322	A2	19821110	EP 1982-200654	19800724
	EP 64322	A3	19821208		
	EP 64322	B1	19850522		
	R: BE, DE, FR, GB, IT, LU, NL, SE				
	AU 8060803	A1	19810709	AU 1980-60803	19800725
	AU 536229	B2	19840503		
	ZA 8004507	A	19820224	ZA 1980-4507	19800725
	SU 1103783	A3	19840715	SU 1980-2964953	19800725
	CA 1139776	A2	19830118	CA 1981-382436	19810723
	US 4534788	A	19850813	US 1983-538261	19831115
	AU 8424899	A1	19840705	AU 1984-24899	19840223
	AU 548070	B2	19851121		
PRAI	US 1979-60869		19790726		
	US 1980-152021		19800530		
	CA 1980-356687		19800722		
	EP 1980-302536		19800724		
OS	CASREACT 101:151873				
GI					



AB Sulfonylureas I [R = CHF₂, CF₃, Et, CH₂CHFR₁; R₁ = F, Cl, CF₃, Br; R₂ = H, F, Cl, Br, Me; R₃ = Me, OMe; R₄ = Me, OMe, OEt, CH₂OMe, CH₂CH₂OMe, OCH₂CH₂OMe, (un)substituted carboxymethoxy; X = O, S, SO, SO₂; X₁ = O, S; X₂ = N, CH] were prepd. Thus, 2-(F₂CHCF₂)C₆H₄NH₂ was diazotized and treated with SO₂ and ClBu to give the sulfonyl chloride 2-(F₂CHCF₂)C₆H₄SO₂Cl, which was treated with NH₃, SOCl₂, and COCl₂ to give the isocyanate 2-(F₂CHCF₂)C₆H₄SO₂NCO. The isocyanate reacted with 2-amino-4,6-dimethoxypyrimidine to give sulfonylurea II. At 25 kg/ha postemergent, II gave complete kill of *Scirpus mucronatus* whereas rice was undamaged.

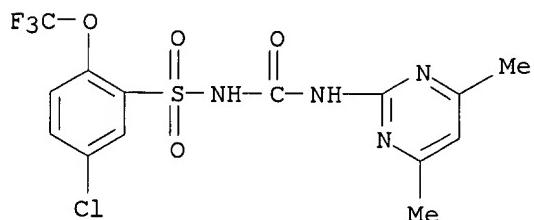
IT 77797-69-4P 77797-93-4P 77883-57-9P
92132-48-4P 92132-49-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and herbicidal activity of)

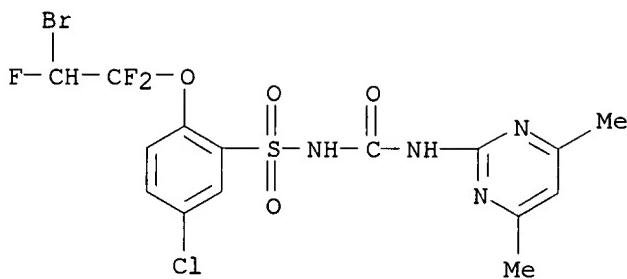
RN 77797-69-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



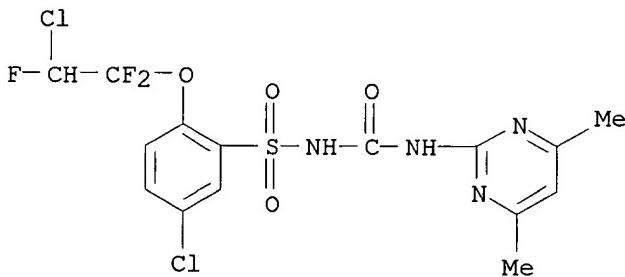
RN 77797-93-4 CAPLUS

CN Benzenesulfonamide, 2-(2-bromo-1,1,2-trifluoroethoxy)-5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



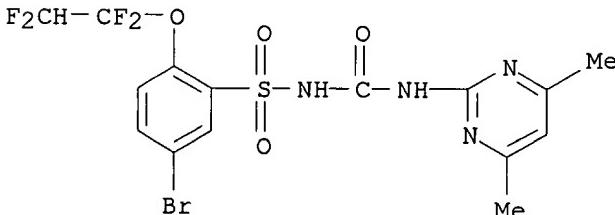
RN 77883-57-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(2-chloro-1,1,2-trifluoroethoxy)-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



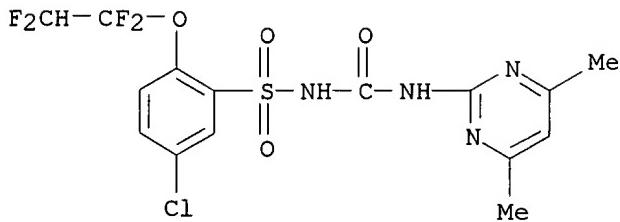
RN 92132-48-4 CAPLUS

CN Benzenesulfonamide, 5-bromo-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl-2-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



RN 92132-49-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl-2-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



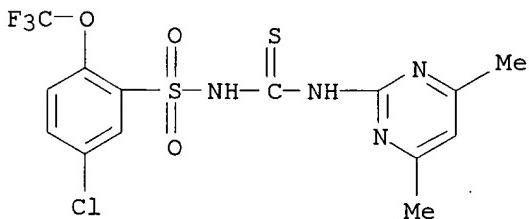
IT 77797-74-1P 77797-78-5P 77797-86-5P

77798-02-8P 77798-03-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep'n. of)

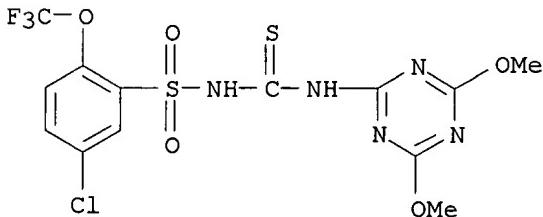
RN 77797-74-1 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]thioxomethyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



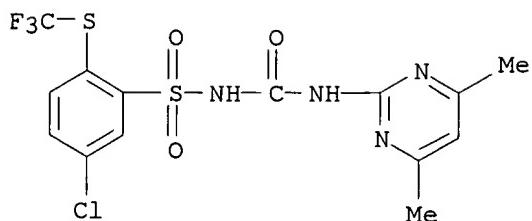
RN 77797-78-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]thioxomethyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

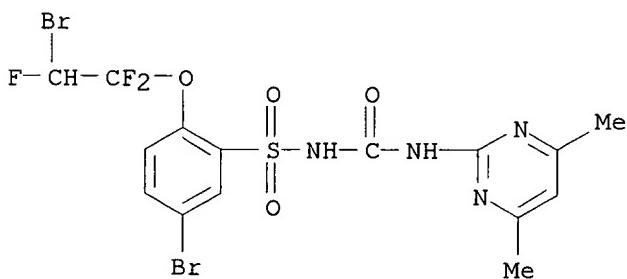


RN 77797-86-5 CAPLUS

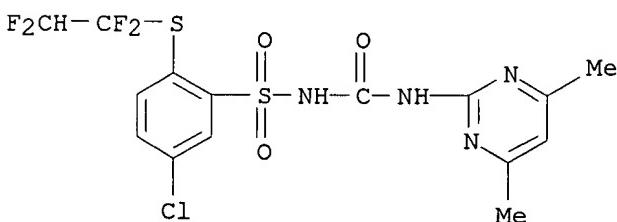
CN Benzenesulfonamide, 5-chloro-N-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



RN 77798-02-8 CAPLUS
CN Benzenesulfonamide, 5-bromo-2-(2-bromo-1,1,2-trifluoroethoxy)-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 77798-03-9 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(1,1,2,2-tetrafluoroethyl)thio]- (9CI) (CA INDEX NAME)



09/868,930

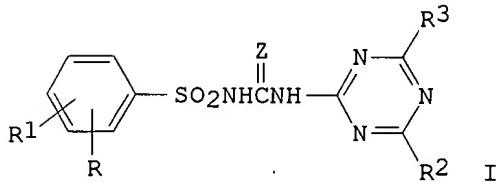
LAS ANSWER 23 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1984:455119 CAPLUS
DN 101:55119
TI N-Phenylsulfonyl-N'-triazinylureas
IN Meyer, Willy; Foery, Werner
PA Ciba-Geigy Corp., USA
SO U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 282,847, abandoned.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4443245	A	19840417	US 1983-458587	19830117
	US 4562210	A	19851231	US 1983-563841	19831221
	GB 2133790	A1	19840801	GB 1984-847	19840113
	GB 2133790	B2	19860903		
	CA 1218382	A1	19870224	CA 1984-445302	19840113
	AU 8423290	A1	19840719	AU 1984-23290	19840116
	AU 565660	B2	19870924		
	BR 8400179	A	19840821	BR 1984-179	19840116
	ZA 8400312	A	19840926	ZA 1984-312	19840116
	EP 121651	A2	19841017	EP 1984-100402	19840116
	EP 121651	A3	19851023		
	EP 121651	B1	19870701		
	R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
	HU 33365	O	19841128	HU 1984-148	19840116
	HU 195082	B	19880428		
	ES 528900	A1	19851201	ES 1984-528900	19840116
	AT 28074	E	19870715	AT 1984-100402	19840116
	JP 59161350	A2	19840912	JP 1984-6226	19840117
	US 4629810	A	19861216	US 1985-693481	19850122
	ES 544736	A1	19860516	ES 1985-544736	19850701
PRAI	US 1981-282847		19810713		
	CH 1980-5481		19800717		
	CH 1980-8216		19801105		
	CH 1981-3991		19810617		
	US 1982-417743		19820913		
	US 1983-458587		19830117		
	US 1983-458696		19830117		
	US 1983-563841		19831221		
	EP 1984-100402		19840116		
OS	CASREACT 101:55119				
GI					



AB The herbicidal and plant growth regulating title compds. I [R = C2-6 alkenyloxy, C2-6 haloalkenyloxy, C2-6 haloalkenylthio, C2-6 haloalkenylsulfinyl; C2-6 haloalkenylsulfonyl; R1 = H, halo, C1-5 alkyl, C2-5 alkenyl, C1-4 haloalkyl, NO₂, substituted carbamoyl, R₄X, CO₂R₅ (R₄, R₅ = H, C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl, X = O, S, SO, SO₂); R₂, R₃ = H, C1-4 alkyl, C1-4 alkoxy, C1-4 alkylthio, C1-4 haloalkyl, halo, alkoxyalkyl, Z = O, S] were prep'd. Thus, o-(H₂C:CHCH₂O)C₆H₄SO₂NH₂ was treated with Ph₂CO₃ to give the carbamate, which was treated with 2-amino-4-methoxy-6-methyltriazine to give I (R = o-H₂C:CHCH₂O, R₁ = H, R₂ = MeO, R₃ = Me, Z = O) (II). In preemergence application at 0.12 kg a.i./ha, II totally withered abutilon but had insignificant action on wheat.

IT 82021-06-5P 82021-07-6P 91074-97-4P

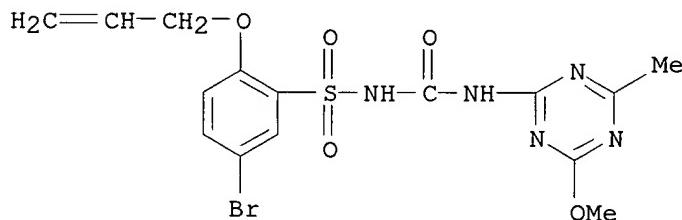
91074-98-5P 91074-99-6P 91075-00-2P

91075-01-3P 91075-02-4P 91075-03-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

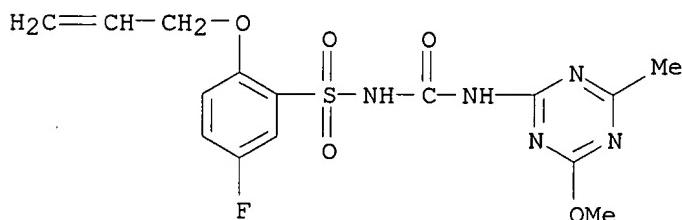
RN 82021-06-5 CAPPLUS

CN Benzenesulfonamide, 5-bromo-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



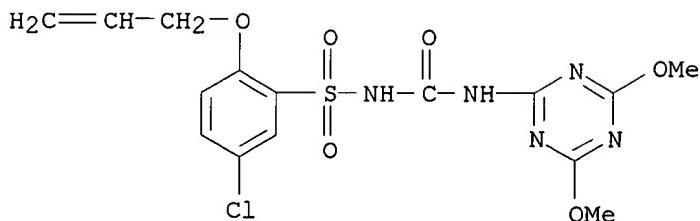
RN 82021-07-6 CAPPLUS

CN Benzenesulfonamide, 5-fluoro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)

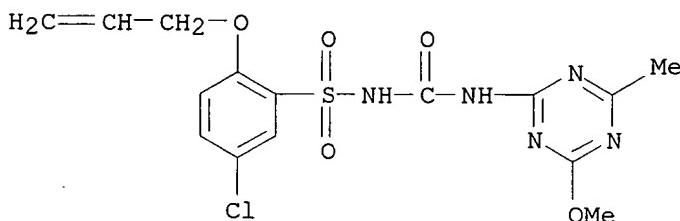


RN 91074-97-4 CAPPLUS

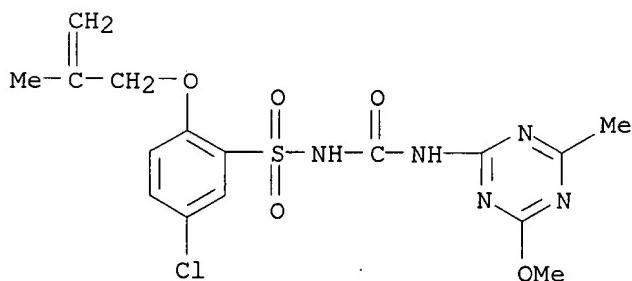
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



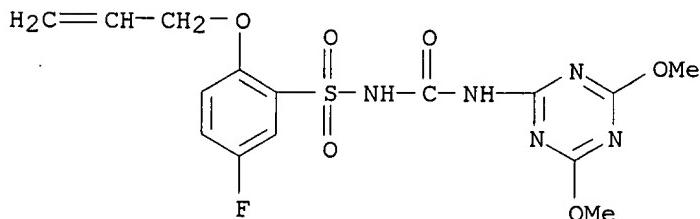
RN 91074-98-5 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 91074-99-6 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(2-methyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



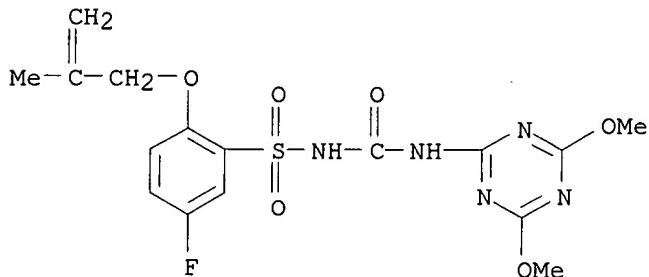
RN 91075-00-2 CAPLUS
CN Benzenesulfonamide, N-[[[4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-5-fluoro-2-(2-propenyl)- (9CI) (CA INDEX NAME)



09/868,930

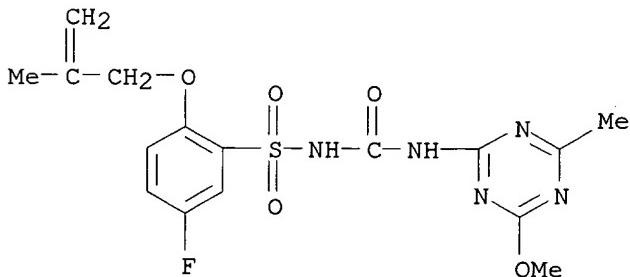
RN 91075-01-3 CAPLUS

CN Benzenesulfonamide, N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-5-fluoro-2-[(2-methyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



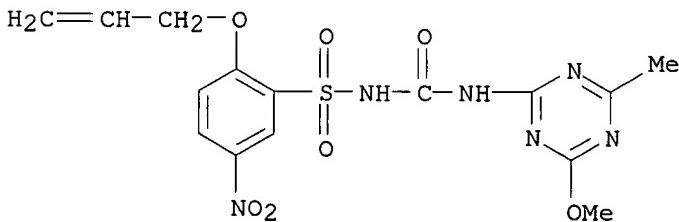
RN 91075-02-4 CAPLUS

CN Benzenesulfonamide, 5-fluoro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(2-methyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



RN 91075-03-5 CAPLUS

CN Benzenesulfonamide, N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-5-nitro-2-(2-propenyloxy)- (9CI) (CA INDEX NAME)



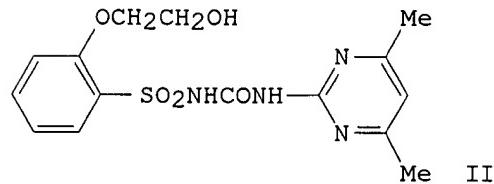
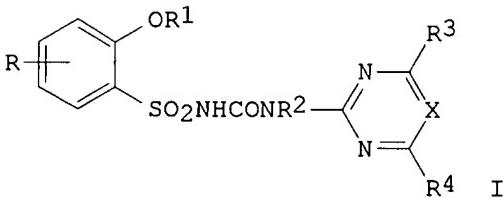
09/868,930

I43 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1984:407181 CAPLUS
DN 101:7181
TI Herbicidal o-alkoxybenzenesulfonamides
IN Freerksen, Robert Wayne; Levitt, George; Schow, Gail Shelly
PA du Pont de Nemours, E. I., and Co. , USA
SO Eur. Pat. Appl., 189 pp.
CODEN: EPXXDW

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 94790	A2	19831123	EP 1983-302682	19830511
	EP 94790	A3	19840718		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4500344	A	19850219	US 1983-474873	19830321
	BR 8302396	A	19840110	BR 1983-2396	19830509
	AU 8314391	A1	19831117	AU 1983-14391	19830510
	CA 1183846	A1	19850312	CA 1983-427798	19830510
	DK 8302122	A	19831113	DK 1983-2122	19830511
	JP 58206573	A2	19831201	JP 1983-81869	19830512
	US 4661146	A	19870428	US 1984-683633	19841219
PRAI	US 1982-377370		19820512		
	US 1983-472249		19830311		
	US 1983-474873		19830321		
OS	CASREACT	101:7181			
GI					



AB Title compds. I [R = H, F, Cl, Br, Me, OMe, CF₃; R₁ = CH₂C.tplbond.CH, (un)substituted alkyl, Ph; R₂ = H, Me; R₃ = Me, OMe, Cl, OCF₂, SCHF₂; R₄ = Me, Et, OMe, OEt, CH₂OMe, OCF₃, CH(OMe)₂, 2-dioxolanyl, NH₂, NHMe, NMe₂, substituted alkylthio, alkoxy; X = CH, N] were prep'd. Thus, HOCH₂CH₂OC₆H₄SO₂NH₂-2 was alkylated with ethylene carbonate and mesylated to give HOCH₂CH₂OC₆H₄SO₂NHO₂Me-2. The latter was successively treated with COCl₂ and 2-amino-4,6-dimethylpyrimidine to give benzenesulfonamide II. II gave complete emergence inhibition of Cyperus rotundus at 0.4 kg/ha preemergent.

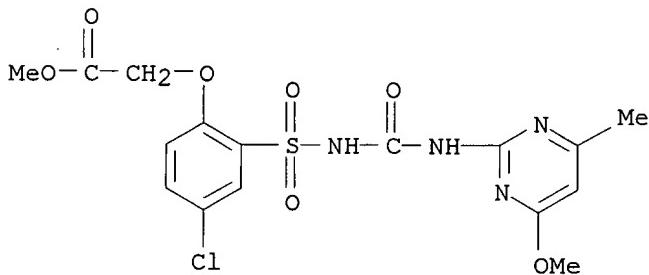
IT 89522-70-3P

09/868,930

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)

RN 89522-70-3 CAPLUS

CN Acetic acid, [4-chloro-2-[[[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

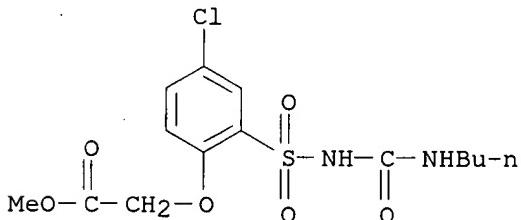


IT 89523-22-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with phosgene)

RN 89523-22-8 CAPLUS

CN Acetic acid, [2-[[(butylamino)carbonyl]amino]sulfonyl]-4-chlorophenoxy]-, methyl ester (9CI) (CA INDEX NAME)

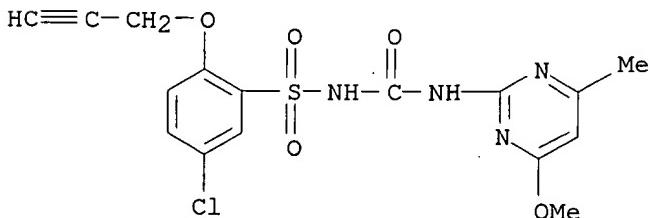


IT 86107-72-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 86107-72-4 CAPLUS

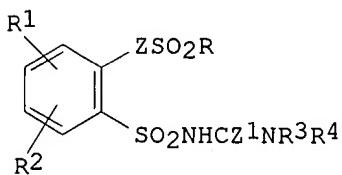
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propynyl)- (9CI) (CA INDEX NAME)



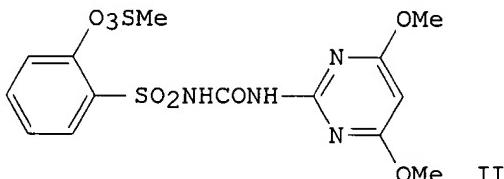
09/868,930

~~ANSWER~~ 25 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1984:209864 CAPLUS
DN 100:209864
TI Herbicidal O-alkylsulfonyloxy- and O-alkylsulfonylaminobenzenesulfonamides
IN Reap, James J.
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 31 pp. Cont.-in-part of U.S. Ser. No. 262,813, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4435205	A	19840306	US 1982-368809	19820415
	AU 8172625	A1	19820114	AU 1981-72625	19810707
	AU 544382	B2	19850523		
	BR 8104372	A	19820323	BR 1981-4372	19810709
	ZA 8104655	A	19830223	ZA 1981-4655	19810709
	CA 1221686	A1	19870512	CA 1981-381469	19810709
	DK 8103078	A	19820112	DK 1981-3078	19810710
	JP 57114580	A2	19820716	JP 1981-107246	19810710
	ES 503874	A1	19830301	ES 1981-503874	19810710
	PL 128500	B1	19840229	PL 1981-232137	19810710
	CS 226433	P	19840319	CS 1981-5302	19810710
	HU 30498	O	19840328	HU 1981-2042	19810710
	HU 190676	B	19861028		
	SU 1210649	A3	19860207	SU 1981-3306551	19810710
	IL 63282	A1	19860429	IL 1981-63282	19810710
	HU 30869	O	19840428	HU 1982-1548	19820517
	US 4534789	A	19850813	US 1983-544429	19831021
	US 4629496	A	19861216	US 1985-730065	19850503
PRAI	US 1980-168344		19800711		
	US 1981-262813		19810519		
	US 1982-368809		19820415		
	US 1983-544429		19831021		
OS	CASREACT	100:209864			
GI					



I



II

AB Phenylsulfonylureidopyrimidines I [R = (un)substituted alkyl; R1 = H, alkyl, halo, OMe, NO₂, CF₃; R2 = H, halo, Me; R3 = H, Me, OMe; R4 = substituted pyrimidinyl; Z = O, alkylimino; Z1 = O, S] were prep'd. Thus, 2-MeSO₃C₆H₄SO₂NH₂ was treated with BuNCO and COCl₂ to yield 2-MeSO₃C₆H₄SO₂NCO which was treated with 2-amino-4,6-dimethoxypyrimidine to give II. Pre- and postemergent application of II and 0.1 kg/ha effectively controlled Avera fatua. Several I showed selective weed control in rice, corn, and soybeans.

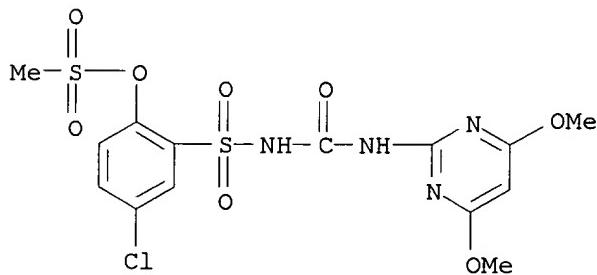
IT 81479-92-7P 81480-10-6P 81480-11-7P
81480-12-8P 81480-13-9P 81480-14-0P

09/868,930

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)

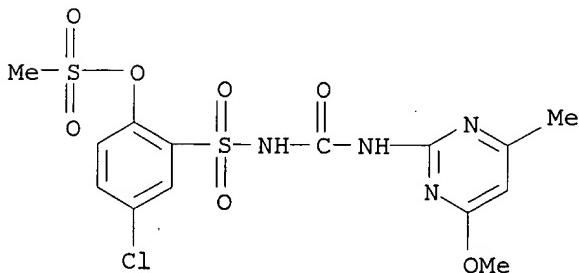
RN 81479-92-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



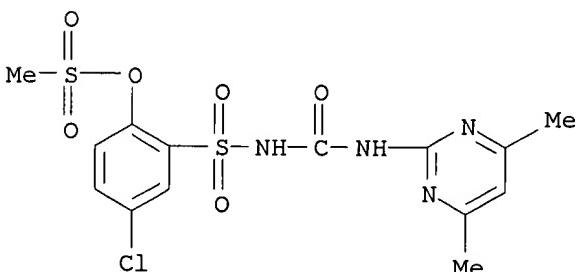
RN 81480-10-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



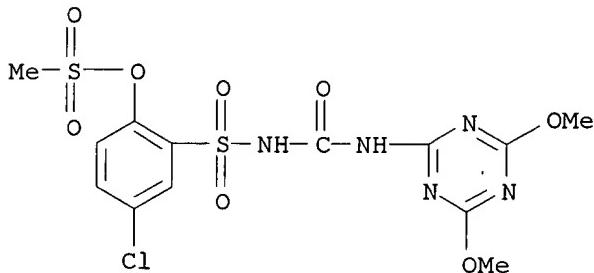
RN 81480-11-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)

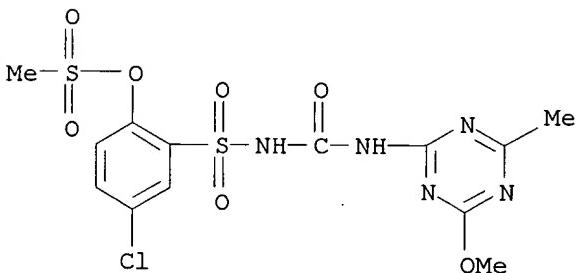


09/868,930

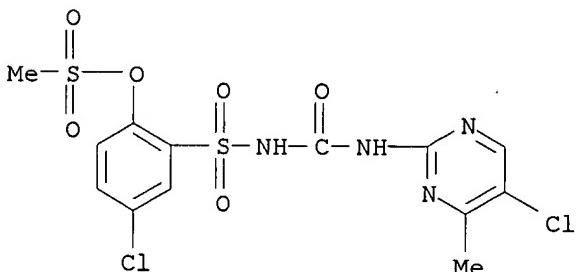
RN 81480-12-8 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 81480-13-9 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 81480-14-0 CAPLUS
CN Benzenesulfonamide, 5-chloro-N-[(5-chloro-4-methyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)

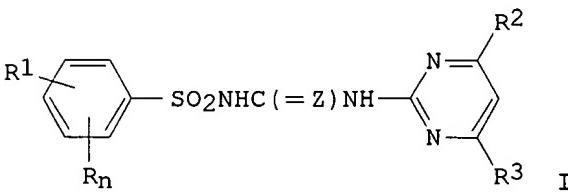


09/868,930

LA3 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1984:139141 CAPLUS
DN 100:139141
TI N-Phenylsulfonyl-N'-pyrimidinylureas
IN Meyer, Willy; Foery, Werner
PA Ciba-Geigy Corp., USA
SO U.S., 13 pp. Cont.-in-part of U.S. Ser. No. 417,716, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4425154	A	19840110	US 1983-458696	19830117
	CH 657849	A	19860930	CH 1980-5481	19800717
	CS 224000	P	19831125	CS 1981-5424	19810715
	IL 79463	A1	19870130	IL 1981-79463	19810715
	AU 8173036	A1	19820121	AU 1981-73036	19810716
	AU 545208	B2	19850704		
	ZA 8104874	A	19820825	ZA 1981-4874	19810716
	SU 1289390	A3	19870207	SU 1981-3308965	19810716
	US 4561878	A	19851231	US 1983-458693	19830117
	CA 1205482	A2	19860603	CA 1983-424330	19830323
	US 4562210	A	19851231	US 1983-563841	19831221
	AU 8434217	A1	19850207	AU 1984-34217	19841012
	AU 570734	B2	19880324		
	US 4629810	A	19861216	US 1985-693481	19850122
	US 4681619	A	19870721	US 1985-761941	19850802
PRAI	CH 1980-5481		19800717		
	CH 1980-8216		19801105		
	CH 1981-3991		19810617		
	US 1981-282847		19810713		
	US 1982-417716		19820913		
	CA 1980-381786		19800715		
	US 1981-282779		19810713		
	IL 1981-63324		19810715		
	US 1982-417743		19820913		
	US 1982-423352		19820924		
	US 1983-458587		19830117		
	US 1983-458595		19830117		
	US 1983-458696		19830117		

GI



AB Title compds. I (Z = O,S; R = alkenyloxy, haloalkenyloxy, haloalkenylthio, haloalkenylsulfinyl, haloalkenylsulfonyl; n = 1,2; R1 = H halo, alkyl, alkenyl, haloalkyl, R, esterified CO2H, NO2, carbamoyl; R2 and R3 are H, alkyl, alkoxy, alkylthio, haloalkyl, halo, alkoxyalkyl), which were

09/868, 930

prepd., are useful as herbicides and plant growth inhibitors (no data). Thus, 2-(ClCH₂:CClO)C₆H₄SO₂NCO was heated with 2-amino-7-chloro-6-methoxypyrimidine in dioxane at 70-80.degree. to give I (R_n = 2-ClCH₂:CClO, R₁ = H, Z = O, R₂ = Cl, R₃ = OMe).

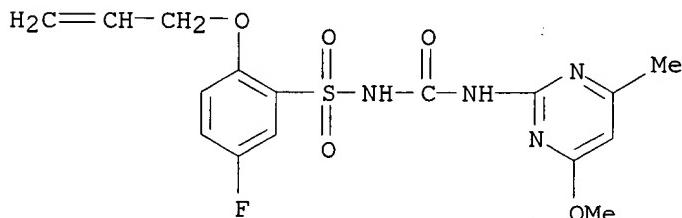
IT 82021-08-7P 82021-09-8P 89412-57-7P

89412-58-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

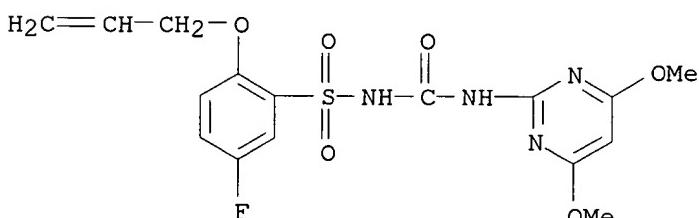
RN 82021-08-7 CAPPLUS

CN Benzenesulfonamide, 5-fluoro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



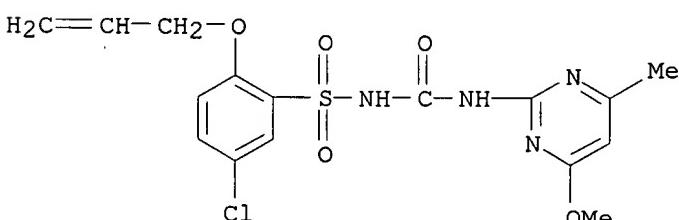
RN 82021-09-8 CAPPLUS

CN Benzenesulfonamide, N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 89412-57-7 CAPPLUS

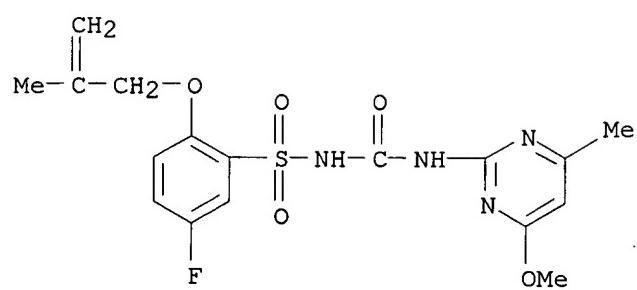
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 89412-58-8 CAPPLUS

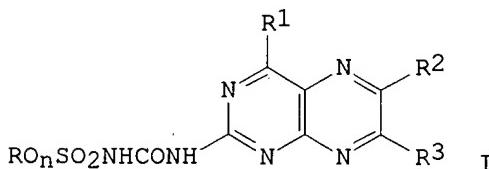
CN Benzenesulfonamide, 5-fluoro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-[(2-methyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)

09/868, 930



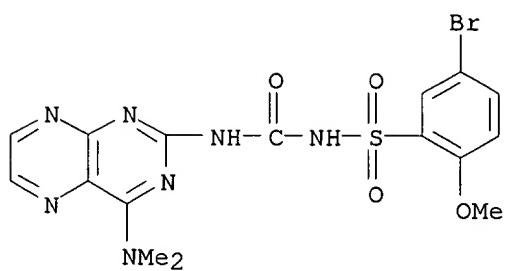
L3 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1984:51606 CAPLUS
 DN 100:51606
 TI N-Pteridinylureas and their use
 IN Mengel, Rudolf; Schroeder, Ludwig; Stransky, Werner; Linden, Gerbert;
 Schneider, Gerhart; Lust, Sigmund
 PA Celamerck G.m.b.H. und Co. K.-G., Fed. Rep. Ger.
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 91593	A1	19831019	EP 1983-102979	19830325
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	DE 3213507	A1	19831020	DE 1982-3213507	19820410
	DE 3219145	A1	19831124	DE 1982-3219145	19820521
	DE 3228100	A1	19840202	DE 1982-3228100	19820728
PRAI	DE 1982-3213507		19820410		
	DE 1982-3219145		19820521		
	DE 1982-3228100		19820728		
OS	CASREACT 100:51606				
GI					



AB The herbicidal (no data) pteridinylureas I [R = (un)substituted Ph,
 (un)substituted pyridyl, (un)substituted alkyl, alkenyl (un)substituted
 cycloallyl; R1 = H, alkyl, alkoxy, alkylthio, halo, NH2, alkylamino,
 diallylamino; R2, R3 = H, allyl; n = 0, 1] were prep'd. Thus,
 2-C1C4H4SO2NCO was treated with 2-amino-4-methoxypteridine in MeCN contg
 Et3N to give 87% N-(4-methoxypteridin-2-yl)-N'-(chlorophenylsulfonyl)urea.
 IT 88538-13-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 88538-13-0 CAPLUS
 CN Benzenesulfonamide, 5-bromo-N-[[[4-(dimethylamino)-2-
 pteridinyl]amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)

09/868,930



09/868,930

LAS ANSWER 28 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1983:558457 CAPLUS
DN 99:158457
TI N-arylsulfonyl-N'-pyrimidinylureas
IN Meyer, Willy; Gass, Karl; Topfl, Werner; Schurter, Rolf; Pissiotas, Georg
PA Ciba-Geigy A.-G. , Switz.
SO Eur. Pat. Appl., 71 pp.
CODEN: EPXXDW

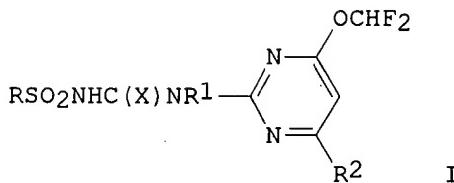
DT Patent

LA German

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 84020	A2	19830720	EP 1983-810005	19830105
	EP 84020	A3	19840425		
	EP 84020	B1	19870916		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	US 4478635	A	19841023	US 1983-455175	19830103
	AT 29718	E	19871015	AT 1983-810005	19830105
	CA 1222760	A1	19870609	CA 1983-419094	19830107
	DK 8300068	A	19830712	DK 1983-68	19830110
	DK 166083	B	19930308		
	DK 166083	C	19930823		
	AU 8310234	A1	19830721	AU 1983-10234	19830110
	AU 539958	B2	19841025		
	BR 8300093	A	19830920	BR 1983-93	19830110
	ZA 8300127	A	19831026	ZA 1983-127	19830110
	DD 209381	A5	19840509	DD 1983-247136	19830110
	HU 31521	O	19840528	HU 1983-72	19830110
	HU 189212	B	19860630		
	ES 518875	A1	19840716	ES 1983-518875	19830110
	SU 1187700	A3	19851023	SU 1983-3536723	19830110
	IL 67650	A1	19861031	IL 1983-67650	19830110
	IL 78430	A1	19861031	IL 1983-78430	19830110
	JP 58126873	A2	19830728	JP 1983-2754	19830111
	JP 63016383	B4	19880408		
	CS 244921	B2	19860814	CS 1983-183	19830111
	US 4523944	A	19850618	US 1984-571985	19840119
	US 4540782	A	19850910	US 1984-641141	19840726
	US 4551531	A	19851105	US 1984-641140	19840726
	CS 244950	B2	19860814	CS 1985-165	19850108
	CA 1222761	A2	19870609	CA 1985-492533	19851008
	JP 62142166	A2	19870625	JP 1986-227094	19860925
	JP 06025162	B4	19940406		
PRAI	CH 1982-124		19820111		
	CH 1982-5224		19820902		
	CH 1981-4667		19810716		
	CH 1981-5075		19810806		
	CH 1981-6541		19811013		
	CH 1982-2205		19820408		
	CH 1982-3527		19820608		
	US 1982-396959		19820709		
	US 1982-396960		19820709		
	US 1983-455175		19830103		
	EP 1983-810005		19830105		
	CA 1983-419094		19830107		
	IL 1983-67650		19830110		
	CS 1983-183		19830111		

GI



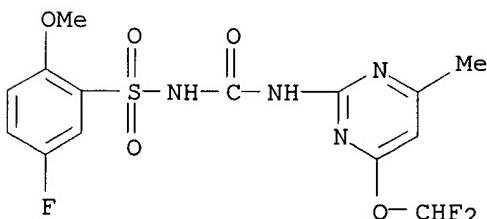
AB Herbicidal I [R = (un)substituted Ph, 1-naphthyl; R1 = H, alkyl, alkoxy; R2 = alkyl, alkoxy, haloalkyl, haloalkoxy, alkylthio, halo, amino; X = O, S] were prepd. Thus, 2-MeO2CC6H4SO2NCO was treated with 2-amino-4,6-bis(difluoromethoxy)pyrimidine to give 73.7% I (R = 2-MeO2CC6H4, R1 = H, R2 = OCHF2; X = O) (II). Pre-emergence, 0.25 kg II/ha gave 100% kill of Cyperus esculentus. In barley, 50 g II/ha gave 100% inhibition of new growth.

IT 87475-04-5P 87475-05-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)

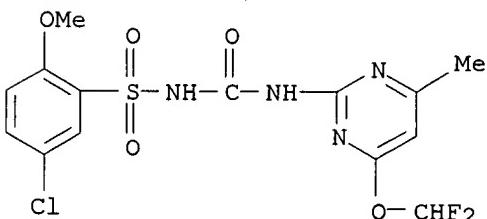
RN 87475-04-5 CAPLUS

CN Benzenesulfonamide, N-[[[4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



RN 87475-05-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



09/868,930

~~ANSWER 29 OF 44 CAPLUS COPYRIGHT 2003 ACS~~
AN 1983:422504 CAPLUS
DN 99:22504
TI N-Phenylsulfonyl-N'-pyrimidinyl- and -triazinylureas
IN Foery, Werner; Gass, Karl; Meyer, Willy; Schurter, Rolf
PA Ciba-Geigy A.-G. , Switz.
SO Eur. Pat. Appl., 70 pp.
CODEN: EPXXDW

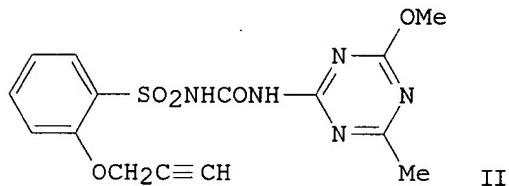
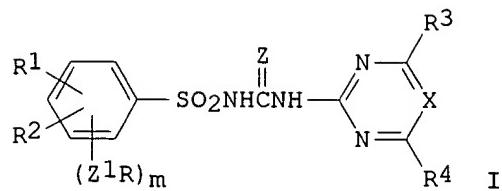
DT Patent

LA German

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 70802	A2	19830126	EP 1982-810298	19820712
	EP 70802	A3	19830511		
	EP 70802	B1	19870128		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
	US 4443243	A	19840417	US 1982-396959	19820709
	AT 25249	E	19870215	AT 1982-810298	19820712
	CA 1172254	A1	19840807	CA 1982-407213	19820714
	IL 66319	A1	19860429	IL 1982-66319	19820714
	ZA 8205042	A	19830525	ZA 1982-5042	19820715
	ZA 8205045	A	19830525	ZA 1982-5045	19820715
	JP 58023677	A2	19830212	JP 1982-124316	19820716
	JP 04053861	B4	19920827		
	US 4487951	A	19841211	US 1984-571976	19840119
	US 4523944	A	19850618	US 1984-571985	19840119
	US 4565887	A	19860121	US 1984-571986	19840119
	US 4540782	A	19850910	US 1984-641141	19840726
	JP 05140080	A2	19930608	JP 1992-95838	19920323
PRAI	CH 1981-4667		19810716		
	CH 1981-5075		19810806		
	CH 1981-6541		19811013		
	CH 1982-124		19820111		
	CH 1982-2205		19820408		
	CH 1982-3527		19820608		
	US 1982-396959		19820709		
	US 1982-396960		19820709		
	EP 1982-810298		19820712		

GI



AB Ureas I [R = C3-6 alkynyl; R1 = H, halo, C1-5 alkyl, C2-5 alkenyl, Z1R5; R2 = R1, C1-4 haloalkyl, CO2R6, NO2, CONR7R8; R3, R4 = H, C1-4 alkyl, alkoxy, alkylthio, haloalkyl, -alkoxy, alkoxyalkyl, halo; R5, R6 = C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl; R7, R8 = H, R5; X = CH, N; Z = O, S; Z1 = O, S, S(O), S(O2)] and their salts, useful as herbicides and plant growth regulators, were prepd. by 4 methods. Etherifying 2-HOC6H4SO2NH2 with HC.tplbond.CCH2Br gave 2-HC.tplbond.CCH2OC6H4SO2NH2, carbonylation of which with successive NaH and Ph2CO3 treatments gave 2-HC.tplbond.CCH2OC6H4SO2NHCO2Et. This was amidated with 2-amino-4-methoxy-6-methyl-1,3,5-triazine in refluxing dioxane to give triazinylurea II. In preemergence testing, II prevented germination or killed Setaria and Stellaria and had a very strong activity against Avena and Sinapis.

IT 86107-71-3P 86107-72-4P 86107-73-5P

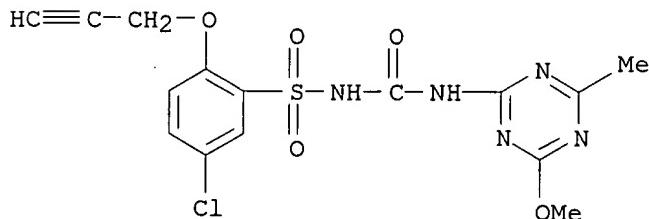
86107-75-7P 86107-76-8P 86176-40-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and herbicidal activity of)

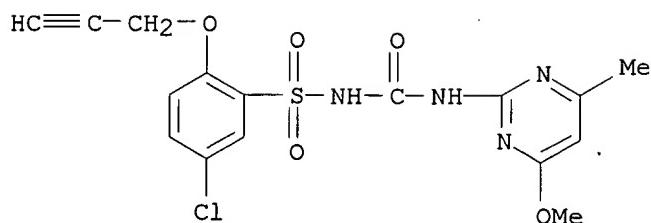
RN 86107-71-3 CAPPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)

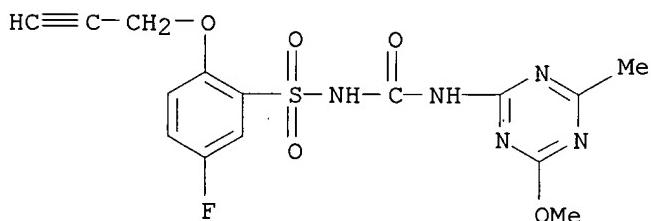


RN 86107-72-4 CAPPLUS

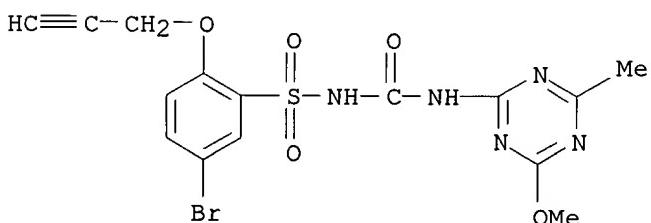
CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



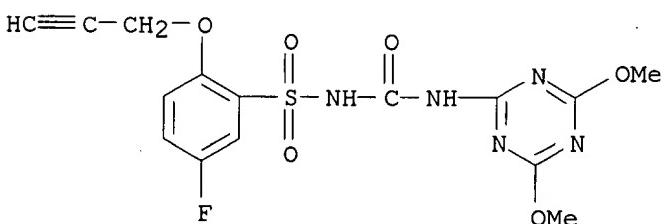
RN 86107-73-5 CAPLUS
 CN Benzenesulfonamide, 5-fluoro-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 86107-75-7 CAPLUS
 CN Benzenesulfonamide, 5-bromo-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



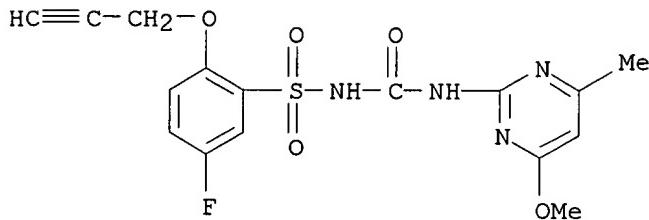
RN 86107-76-8 CAPLUS
 CN Benzenesulfonamide, N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-5-fluoro-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 86176-40-1 CAPLUS
 CN Benzenesulfonamide, 5-fluoro-N-[[(4-methoxy-6-methyl-2-

09/868,930

pyrimidinyl]amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



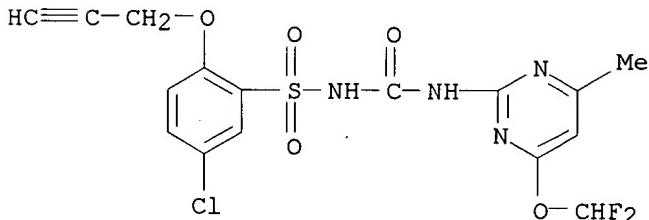
IT 86107-77-9P 86107-78-0P 86107-79-1P

86107-80-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

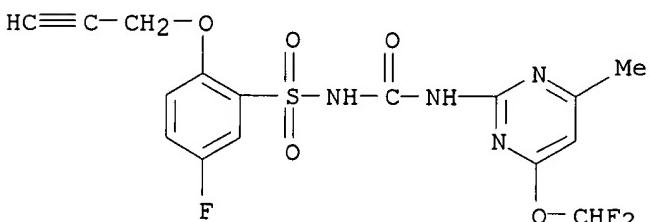
RN 86107-77-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



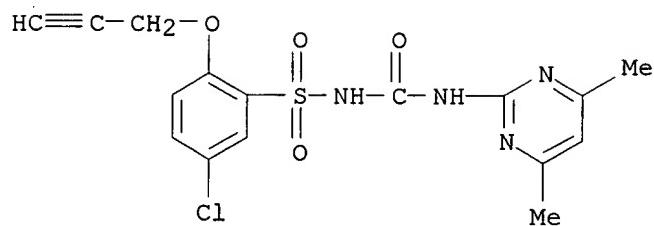
RN 86107-78-0 CAPLUS

CN Benzenesulfonamide, N-[[[4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]-5-fluoro-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



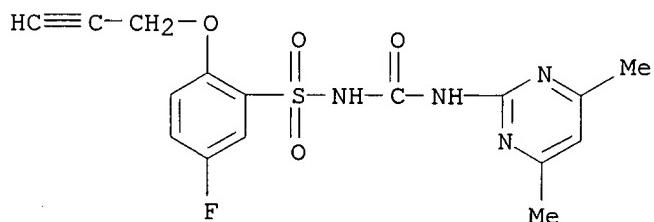
RN 86107-79-1 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 86107-80-4 CAPLUS

CN Benzenesulfonamide, N-[[[4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-(2-propynyl)- (9CI) (CA INDEX NAME)



09/868,930

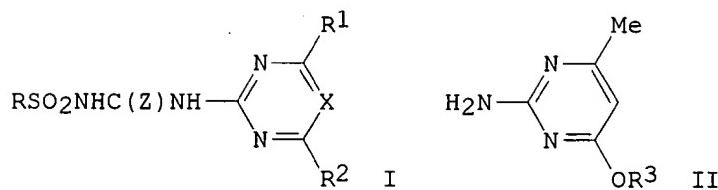
~~LA3~~ ANSWER 30 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1983:215616 CAPLUS
DN 98:215616
TI N-Phenylsulfonyl-N'-pyrimidinyl- and -triazinyl ureas
IN Meyer, Willy; Foery, Werner
PA Ciba-Geigy A.-G. , Switz.
SO Eur. Pat. Appl., 79 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 72347	A1	19830216	EP 1982-810323	19820802
	EP 72347	B1	19851113		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	US 4545811	A	19851008	US 1982-401583	19820726
	AT 16480	E	19851115	AT 1982-810323	19820802
	CS 241510	B2	19860313	CS 1982-5801	19820803
	DD 203223	A5	19831019	DD 1982-242248	19820804
	IL 66460	A1	19851231	IL 1982-66460	19820804
	CA 1231948	A1	19880126	CA 1982-408671	19820804
	DK 8203511	A	19830207	DK 1982-3511	19820805
	DK 159433	B	19901015		
	DK 159433	C	19910318		
	AU 8286770	A1	19830210	AU 1982-86770	19820805
	AU 548397	B2	19851212		
	ZA 8205671	A	19830629	ZA 1982-5671	19820805
	BR 8204597	A	19830726	BR 1982-4597	19820805
	ES 514750	A1	19830801	ES 1982-514750	19820805
	HU 30888	O	19840428	HU 1982-2523	19820805
	HU 190702	B	19861028		
	RO 85266	P	19840929	RO 1982-108379	19820805
	JP 58038264	A2	19830305	JP 1982-137168	19820806
	US 4523944	A	19850618	US 1984-571985	19840119
	US 4540782	A	19850910	US 1984-641141	19840726
	US 4693741	A	19870915	US 1985-740937	19850603
PRAI	CH 1981-5075		19810806		
	CH 1982-2205		19820408		
	CH 1981-4667		19810716		
	CH 1981-6541		19811013		
	CH 1982-124		19820111		
	CH 1982-3527		19820608		
	US 1982-396959		19820709		
	US 1982-396960		19820709		
	US 1982-401583		19820726		
	EP 1982-810323		19820802		
OS	CASREACT 98:215616				
GI					



AB Pyrimidinyl- and triazinylureas I [R = substituted Ph; R1 = H, halo, (un)substituted alkyl, alkoxy, alkylthio; R2 = haloalkoxy, haloalkylthio; X = CH, N; Z = O, S] were prepd. Thus, 62.5 g II (R3 = H) was treated with F2CHCl to give 39.9 g II (R = CHF2), which (1.75 g) was condensed with 2.5 g 2-F2CHOC6H4SO2NCO to give 4.0 g I (R = 2-F2CHOC6H4; R1 = Me, R2 = OCHF2, X = CH, Z = O) (III). At 4 kg/ha pre-emergence, III gave complete kill of Setaria species. In soybeans, 3 kg III/ha increased the no. of pods 30% and total pod wt. 24%.

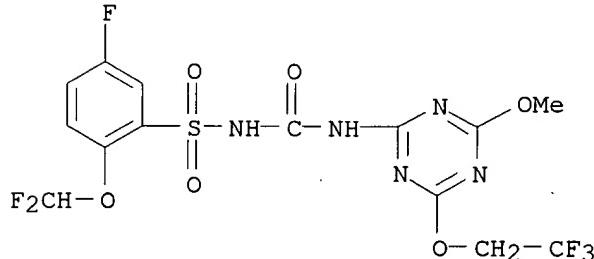
IT 85821-51-8P 85821-53-0P 85821-79-0P

85821-89-2P 85821-90-5P 85821-91-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

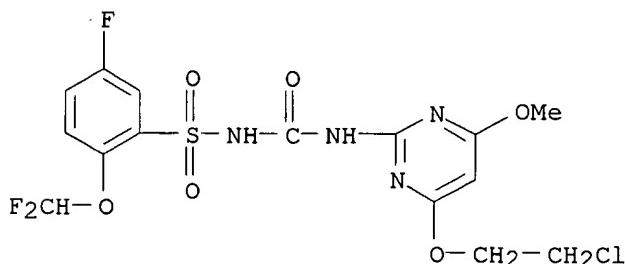
RN 85821-51-8 CAPPLUS

CN Benzenesulfonamide, 2-(difluoromethoxy)-5-fluoro-N-[[[4-methoxy-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 85821-53-0 CAPPLUS

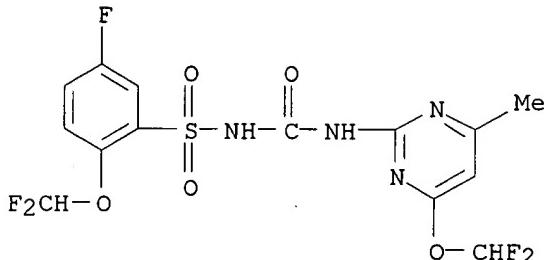
CN Benzenesulfonamide, N-[[[4-(2-chloroethoxy)-6-methoxy-2-pyrimidinyl]amino]carbonyl]-2-(difluoromethoxy)-5-fluoro- (9CI) (CA INDEX NAME)



RN 85821-79-0 CAPPLUS

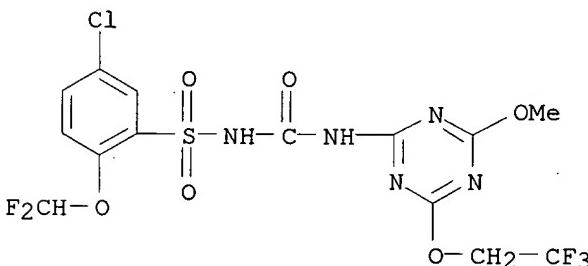
09/868, 930

CN Benzenesulfonamide, 2-(difluoromethoxy)-N-[[[4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]-5-fluoro- (9CI) (CA INDEX NAME)



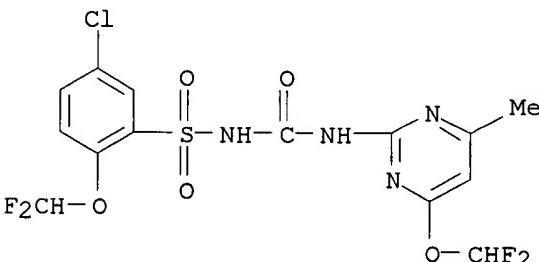
RN 85821-89-2 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[[[4-methoxy-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 85821-90-5 CAPLUS

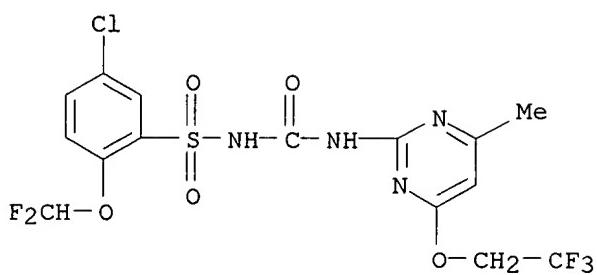
CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[[[4-(difluoromethoxy)-6-methyl-2-pyrimidinyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 85821-91-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[[[4-methyl-6-(2,2,2-trifluoroethoxy)-2-pyrimidinyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

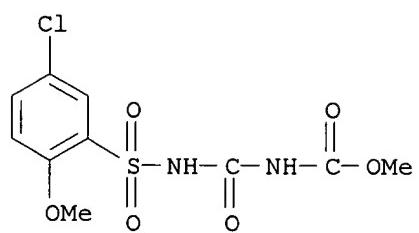
09/868, 930



D16 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1982:582004 CAPLUS
 DN 97:182004
 TI Arylsulfonylureidocarboxylates and -thiocarboxylates and their salts:
 herbicultural antidotes
 IN Pallos, Ferenc Marcus; Lin, Kang Chi; Green, Laddie Lee
 PA Stauffer Chemical Co., USA
 SO Eur. Pat. Appl., 65 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 52856	A2	19820602	EP 1981-109748	19811117
	EP 52856	A3	19820728		
	R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
	DK 8105062	A	19820520	DK 1981-5062	19811116
	FI 8103670	A	19820520	FI 1981-3670	19811118
	NO 8103906	A	19820521	NO 1981-3906	19811118
	AU 8177597	A1	19820527	AU 1981-77597	19811118
	BR 8107511	A	19820810	BR 1981-7511	19811118
	DD 202368	A5	19830914	DD 1981-234956	19811118
	HU 27549	O	19831028	HU 1981-3451	19811118
	JP 57118552	A2	19820723	JP 1981-184531	19811119
	ZA 8108019	A	19821229	ZA 1981-8019	19811119
	ES 507277	A1	19830316	ES 1981-507277	19811119
	PL 129928	B1	19840630	PL 1981-233897	19811119
	ES 516548	A1	19831201	ES 1982-516548	19821015
	JP 58083668	A2	19830519	JP 1982-181489	19821018
	US 4931580	A	19900605	US 1983-564981	19831223
PRAI	US 1980-207991		19801119		
	US 1981-312251		19811019		
AB	RSO ₂ NR1CONR2C(O)XR3 [I; R = (un)substituted Ph, PhCH ₂ , naphthyl, pyridyl, styryl; R ₁ = H, C ₁ -4 alkyl, C ₂ -6 alkoxyalkyl; R ₂ = H, C ₁ -4 alkyl, C ₂ -6 alkoxyalkyl, Ph, ClC ₆ H ₄ ; X = O, S; R ₃ = C ₁ -4 alkyl, C ₃ -6 alkenyl or alkynyl, C ₁ -4 haloalkyl, C ₂ -6 alkoxyalkyl, CPh:CHMe, PhCH ₂ , chlorobenzyl, C ₃ -6 haloalkenyl, (un)substituted Ph] were prep'd. for protecting crops from injury due to thiocarbamate, thiocarbamate sulfoxide, or haloacetanilide herbicides. Thus, reaction of H ₂ NCO ₂ Me and 4-ClC ₆ H ₄ SO ₂ NCO gave 1-(4-chlorobenzenesulfonyl)-3-(methoxycarbonyl)urea. Alternatively, reaction of 4-O ₂ NC ₆ H ₄ SO ₂ NH ₂ and OCNCO ₂ Me in the presence of pyridine catalysts gave 1-(4-nitrobenzenesulfonyl)-3-(methoxycarbonyl)urea. About 150 examples of I were prep'd.				
IT	83309-92-6P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and activity as herbicultural antidote)				
RN	83309-92-6 CAPLUS				
CN	Carbamic acid, [[[[(5-chloro-2-methoxyphenyl)sulfonyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)				

09/868,930



09/868,930

ANSWER 32 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1982:406327 CAPLUS
DN 97:6327
TI N-Phenylsulfonyl-N'-pyrimidinyl- and -triazinyl ureas
IN Meyer, Willy; Foery, Werner
PA Ciba-Geigy A.-G. , Switz.
SO Eur. Pat. Appl., 77 pp.
CODEN: EPXXDW

DT Patent

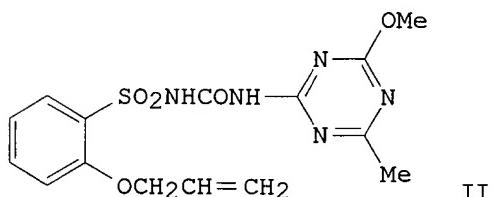
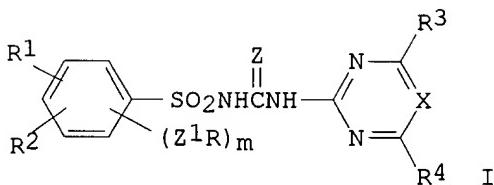
LA German

FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 44807	A2	19820127	EP 1981-810281	19810713
	EP 44807	A3	19820407		
	EP 44807	B1	19851121		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	CA 1330438	A1	19940628	CA 1980-381786	19800715
	CH 657849	A	19860930	CH 1980-5481	19800717
	AT 16555	E	19851215	AT 1981-810281	19810713
	CS 224000	P	19831125	CS 1981-5424	19810715
	RO 83456	P	19840221	RO 1981-104891	19810715
	IL 63324	A1	19870130	IL 1981-63324	19810715
	IL 79463	A1	19870130	IL 1981-79463	19810715
	DK 8103186	A	19820118	DK 1981-3186	19810716
	DK 163664	B	19920323		
	DK 163664	C	19920817		
	AU 8173036	A1	19820121	AU 1981-73036	19810716
	AU 545208	B2	19850704		
	ZA 8104874	A	19820825	ZA 1981-4874	19810716
	ES 504013	A1	19830316	ES 1981-504013	19810716
	HU 30163	O	19840328	HU 1981-2083	19810716
	HU 191006	B	19861228		
	DD 215461	A5	19841114	DD 1981-231843	19810716
	DD 220601	A5	19850403	DD 1981-269168	19810716
	SU 1289390	A3	19870207	SU 1981-3308965	19810716
	JP 57056452	A2	19820405	JP 1981-112039	19810717
	JP 62045228	B4	19870925		
	BR 8104617	A	19820406	BR 1981-4617	19810717
	BR 8104618	A	19820406	BR 1981-4618	19810717
	BR 8104619	A	19820406	BR 1981-4619	19810717
	ES 518258	A1	19840116	ES 1982-518258	19821216
	US 4561878	A	19851231	US 1983-458693	19830117
	CA 1205482	A2	19860603	CA 1983-424330	19830323
	AU 8434217	A1	19850207	AU 1984-34217	19841012
	AU 570734	B2	19880324		
	US 4629810	A	19861216	US 1985-693481	19850122
	US 4681619	A	19870721	US 1985-761941	19850802
	JP 62116554	A2	19870528	JP 1986-214981	19860911
	JP 02014347	B4	19900406		
	DK 9001441	A	19900613	DK 1990-1441	19900613
	DK 165182	B	19921019		
	DK 165182	C	19930315		
	DK 9101893	A	19911120	DK 1991-1893	19911120
	DK 164901	B	19920907		
	DK 164901	C	19930118		
	DK 9200023	A	19920108	DK 1992-23	19920108
	DK 166082	B	19930308		

DK	166082	C	19930802
PRAI	CH 1980-5481		19800717
	CH 1980-8216		19801105
	CH 1981-3991		19810617
	CA 1980-381786		19800715
	EP 1981-810281		19810713
	US 1981-282779		19810713
	US 1981-282847		19810713
	IL 1981-63324		19810715
	US 1982-417743		19820913
	US 1982-423352		19820924
	US 1983-458595		19830117

GI



AB The title ureas I (R = C1-6 alkyl or C2-6 alkenyl each optionally substituted with C1-4 alkoxy, alkylthio, -sulfinyl, -sulfonyl, haloalkoxy, haloalkylthio, -sulfinyl, -sulfonyl, or a C2-6 haloalkenyl; R1 = H, halo, C1-5 alkyl, C2-5 alkenyl, Z2R5; R2 = H, halo, C1-5 alkyl, C2-5 alkenyl, C1-4 haloalkyl, Z2R5, CO2R6, NO2, CONR7R8; R3, R4 = H, C1-4 alkyl, alkoxy, alkylthio, haloalkyl, halo, alkoxyalkyl; R5, R6 = C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl; R7, R8 = H, C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl; X = CH, N; Z = O, S; Z1, Z2 = O, S, SO, SO2; m = 1, 2) and their salts, useful as plant growth regulators (no data) and herbicides were prep'd. Demethylating 2-MeOC₆H₄SO₂NH₂ in CH₂Cl₂ with BBr₃ 1 h at room temp. gave 2-HOC₆H₄SO₂NH₂ which was O-allylated with CH₂:CHCH₂Br in MeCOEt contg. KOH to give 2-CH₂:CHCH₂O₆H₄SO₂NH₂. This reacted with NaH and PhNHCO₂Ph in DMF to give 2-CH₂:CHCH₂O₆H₄SO₂NHCO₂Ph which condensed with 2-amino-4-methoxy-6-methyl-1,3,5-triazine in refluxing dioxane 0.5 h to give sulfonylurea II. At 0.03 kg/ha post-emergence II killed Xanthium species and Sinapis completely with no effect on wheat, corn, and dry rice.

IT 82021-06-5P 82021-07-6P 82021-08-7P

82021-09-8P

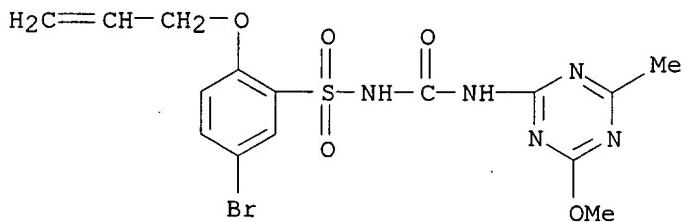
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 82021-06-5 CAPLUS

CN Benzenesulfonamide, 5-bromo-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-

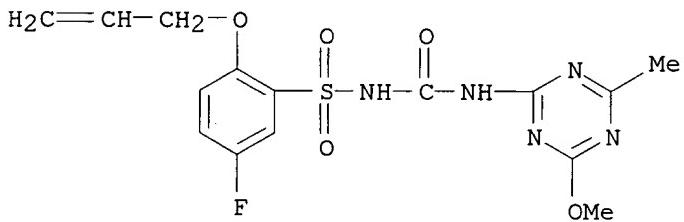
09/868, 930

yl) amino] carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



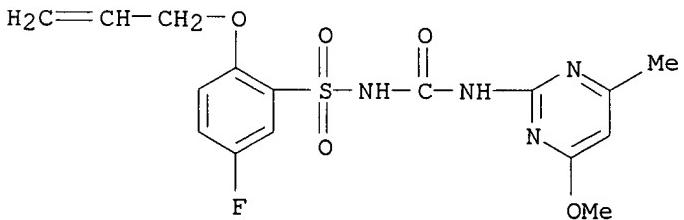
RN 82021-07-6 CAPLUS

CN Benzenesulfonamide, 5-fluoro-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



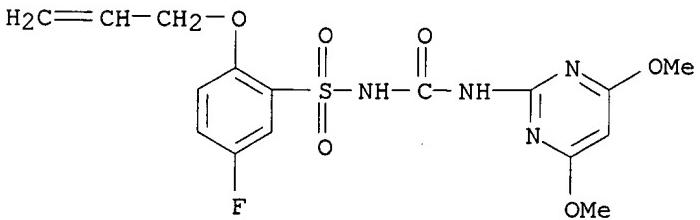
RN 82021-08-7 CAPLUS

CN Benzenesulfonamide, 5-fluoro-N-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 82021-09-8 CAPLUS

CN Benzenesulfonamide, N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-(2-propenyl)- (9CI) (CA INDEX NAME)

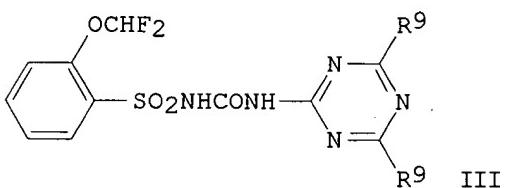
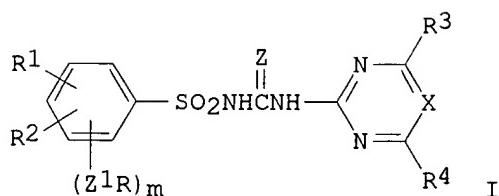


L43 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1982:406326 CAPLUS
 DN 97:6326
 TI N-Phenylsulfonyl-N'-pyrimidinyl- and -triazinylureas
 IN Meyer, Willy; Foery, Werner
 PA Ciba-Geigy A.-G. , Switz.
 SO Eur. Pat. Appl., 64 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 44808	A2	19820127	EP 1981-810282	19810713
	EP 44808	A3	19820407		
	EP 44808	B1	19860115		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	CA 1330438	A1	19940628	CA 1980-381786	19800715
	CH 657849	A	19860930	CH 1980-5481	19800717
	AT 17431	E	19860215	AT 1981-810282	19810713
	CS 224000	P	19831125	CS 1981-5424	19810715
	RO 83456	P	19840221	RO 1981-104891	19810715
	IL 63324	A1	19870130	IL 1981-63324	19810715
	IL 79463	A1	19870130	IL 1981-79463	19810715
	DK 8103186	A	19820118	DK 1981-3186	19810716
	DK 163664	B	19920323		
	DK 163664	C	19920817		
	AU 8173036	A1	19820121	AU 1981-73036	19810716
	AU 545208	B2	19850704		
	ZA 8104874	A	19820825	ZA 1981-4874	19810716
	ES 504013	A1	19830316	ES 1981-504013	19810716
	HU 30163	O	19840328	HU 1981-2083	19810716
	HU 191006	B	19861228		
	DD 215461	A5	19841114	DD 1981-231843	19810716
	DD 220601	A5	19850403	DD 1981-269168	19810716
	SU 1289390	A3	19870207	SU 1981-3308965	19810716
	JP 57056452	A2	19820405	JP 1981-112039	19810717
	JP 62045228	B4	19870925		
	BR 8104617	A	19820406	BR 1981-4617	19810717
	BR 8104618	A	19820406	BR 1981-4618	19810717
	BR 8104619	A	19820406	BR 1981-4619	19810717
	ES 518258	A1	19840116	ES 1982-518258	19821216
	US 4561878	A	19851231	US 1983-458693	19830117
	CA 1205482	A2	19860603	CA 1983-424330	19830323
	AU 8434217	A1	19850207	AU 1984-34217	19841012
	AU 570734	B2	19880324		
	US 4629810	A	19861216	US 1985-693481	19850122
	US 4681619	A	19870721	US 1985-761941	19850802
	JP 62116554	A2	19870528	JP 1986-214981	19860911
	JP 02014347	B4	19900406		
	DK 9001441	A	19900613	DK 1990-1441	19900613
	DK 165182	B	19921019		
	DK 165182	C	19930315		
	DK 9101893	A	19911120	DK 1991-1893	19911120
	DK 164901	B	19920907		
	DK 164901	C	19930118		
	DK 9200023	A	19920108	DK 1992-23	19920108
	DK 166082	B	19930308		

DK 166082	C 19930802
PRAI CH 1980-5481	19800717
CH 1980-8216	19801105
CH 1981-3991	19810617
CA 1980-381786	19800715
EP 1981-810282	19810713
US 1981-282779	19810713
US 1981-282847	19810713
IL 1981-63324	19810715
US 1982-417743	19820913
US 1982-423352	19820924
US 1983-458595	19830117

GI



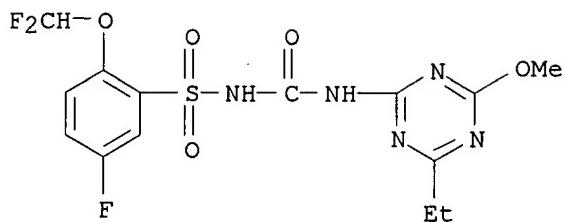
AB The title ureas I ($\text{R} = \text{C1-6 haloalkyl}$; $\text{R1} = \text{H, halo, C1-5 alkyl, C2-5-alkenyl, Z2R5}$; $\text{R2} = \text{H, halo, C1-5 alkyl, C2-5 alkenyl, C1-4 haloalkyl, Z2R5, CO2R6, NO2, CONR7R8}$; $\text{R3, R4} = \text{H, C1-4 alkyl, alkoxy, alkylthio, haloalkyl, or alkoxyalkyl, halo}$; $\text{R5, R6} = \text{C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl}$; $\text{R7, R8} = \text{H, C1-5 alkyl, C2-5 alkenyl, C2-6 alkynyl}$; $\text{Z} = \text{O, S; Z1, Z2} = \text{O, S, SO, SO2; m} = 1, 2$) and their salts, useful as herbicides (extensive data tabulated), were prep'd. Treating CuSO_4 in aq. HCl with 40% NaHSO_3 , then aq. 40% $\text{NaHSO}_3\text{-2-F2CHOC6H4N2+Cl-}$, gave 2-F2CHOC6H4SO2Cl which was amidated to give $2\text{-F2CHOC6H4SO2NH}_2$ (II). 4,6-Dichloro-2-isocyanato-1,3,5-triazine in dioxane was refluxed with II to give urea III ($\text{R9} = \text{Cl}$) which was etherified with NaOEt in EtOH to give III ($\text{R9} = \text{OEt}$) which gave complete preemergence control of Setaria and Stellaria at 4 kg/ha.

IT 82097-57-2P 82097-58-3P 82097-59-4P
 82097-60-7P 82097-61-8P 82097-62-9P
 82097-63-0P

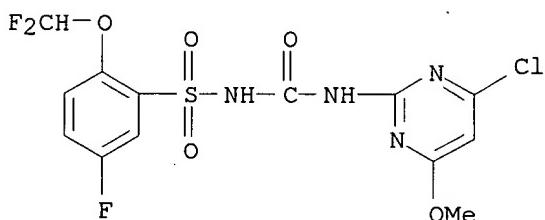
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep'n. of)

RN 82097-57-2 CAPLUS

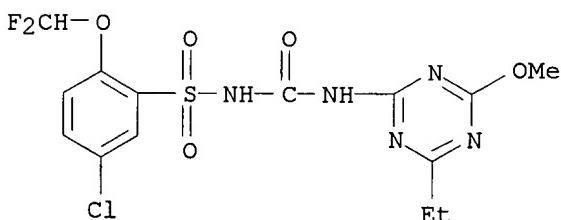
CN Benzenesulfonamide, 2-(difluoromethoxy)-N-[(4-ethyl-6-methoxy-1,3,5-triazin-2-yl)amino]carbonyl-5-fluoro- (9CI) (CA INDEX NAME)



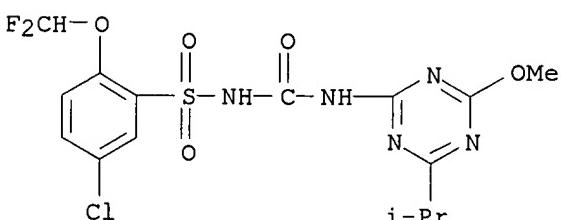
RN 82097-58-3 CAPLUS
 CN Benzenesulfonamide, N-[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(difluoromethoxy)-5-fluoro- (9CI) (CA INDEX NAME)



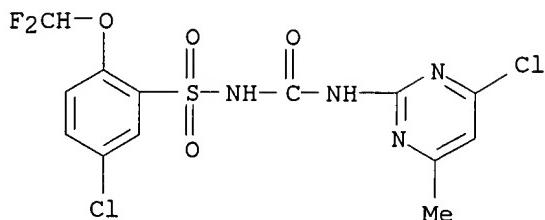
RN 82097-59-4 CAPLUS
 CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[(4-ethyl-6-methoxy-1,3,5-triazin-2-yl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 82097-60-7 CAPLUS
 CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[[[4-methoxy-6-(1-methylethyl)-1,3,5-triazin-2-yl]amino]carbonyl- (9CI) (CA INDEX NAME)

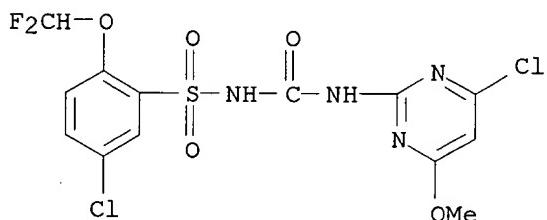


RN 82097-61-8 CAPLUS
 CN Benzenesulfonamide, 5-chloro-N-[(4-chloro-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-(difluoromethoxy)- (9CI) (CA INDEX NAME)



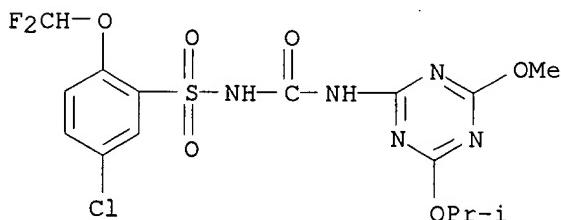
RN 82097-62-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]-2-(difluoromethoxy)- (9CI) (CA INDEX NAME)



RN 82097-63-0 CAPLUS

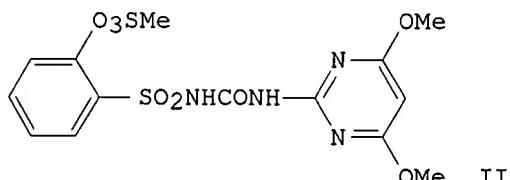
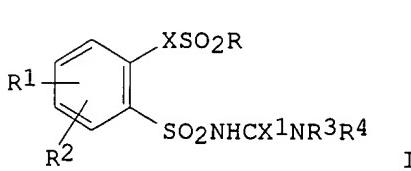
CN Benzenesulfonamide, 5-chloro-2-(difluoromethoxy)-N-[[[4-methoxy-6-(1-methylethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



ANSWER 34 OF 44 CAPLUS COPYRIGHT 2003 ACS
 AN 1982:162749 CAPLUS
 DN 96:162749
 TI Herbicidal o-alkylsulfonyloxy- and o-alkylsulfonylaminobenzenesulfonamides
 IN Reap, James John
 PA du Pont de Nemours, E. I., and Co., USA
 SO Eur. Pat. Appl., 104 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 44212	A1	19820120	EP 1981-303179	19810710
	EP 44212	B1	19850410		
	R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	AU 8172625	A1	19820114	AU 1981-72625	19810707
	AU 544382	B2	19850523		
	BR 8104372	A	19820323	BR 1981-4372	19810709
	ZA 8104655	A	19830223	ZA 1981-4655	19810709
	CA 1221686	A1	19870512	CA 1981-381469	19810709
	DK 8103078	A	19820112	DK 1981-3078	19810710
	JP 57114580	A2	19820716	JP 1981-107246	19810710
	ES 503874	A1	19830301	ES 1981-503874	19810710
	PL 128500	B1	19840229	PL 1981-232137	19810710
	CS 226433	P	19840319	CS 1981-5302	19810710
	HU 30498	O	19840328	HU 1981-2042	19810710
	HU 190676	B	19861028		
	AT 12636	E	19850415	AT 1981-303179	19810710
	SU 1210649	A3	19860207	SU 1981-3306551	19810710
	IL 63282	A1	19860429	IL 1981-63282	19810710
	HU 30869	O	19840428	HU 1982-1548	19820517
	US 4629496	A	19861216	US 1985-730065	19850503
PRAI	US 1980-168344		19800711		
	US 1981-262813		19810519		
	EP 1981-303179		19810710		
	US 1983-544429		19831021		

GI



AB Title compds. I [R = (un)substituted alkyl; R1 = H, F, Cl, Br, OMe, NO2, Me, Et; R2 = H, F, Cl, Br, Me; R3 = H, Me, OMe; R4 = substituted pyrimidinyl, triazinyl; X = O, alkylimino; X1 = O, S] were prep'd. Thus, 2-MeSO3C6H4SO2NH2 was treated with COCl2 to give 2-MeSO3C6H4SO2NCO which was treated with 2-amino-4,6-dimethoxypyrimidine to give II. At 0.1 kg/ha post-emergence II gave total herbicidal control of, e.g., morningglory.

IT 81479-92-7P 81480-10-6P 81480-11-7P
 81480-12-8P 81480-13-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

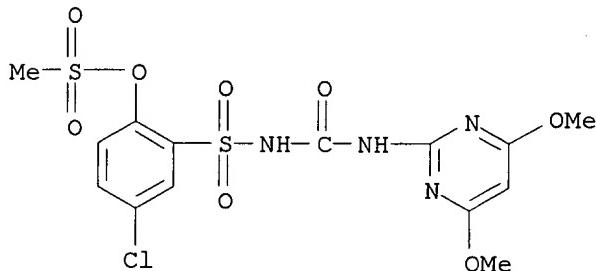
09/868,930

study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and herbicidal activity of)

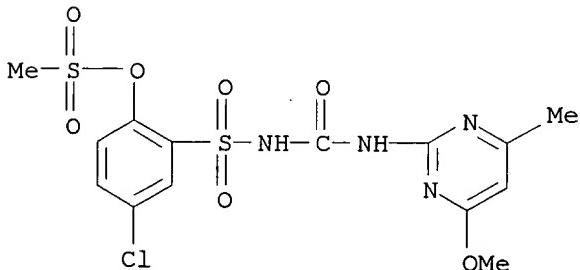
RN 81479-92-7 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



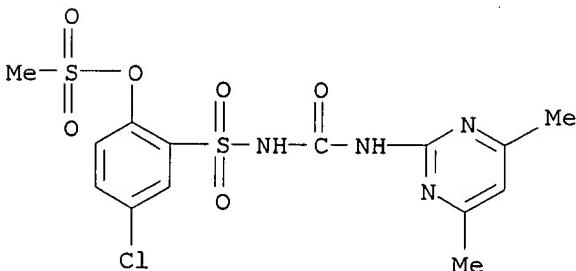
RN 81480-10-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 81480-11-7 CAPLUS

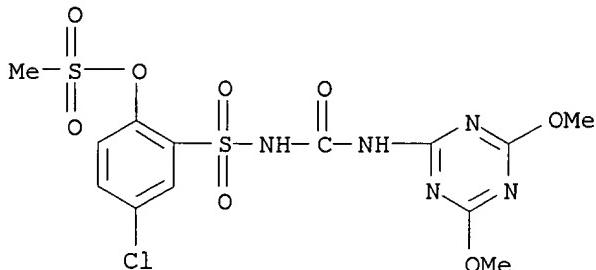
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 81480-12-8 CAPLUS

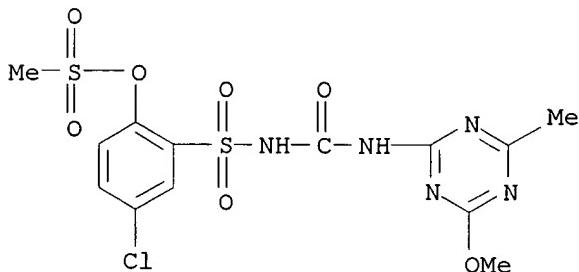
09/868,930

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 81480-13-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)

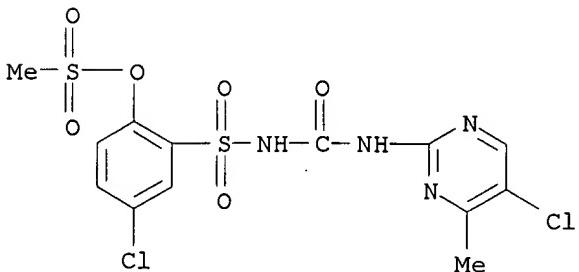


IT 81480-14-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 81480-14-0 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(5-chloro-4-methyl-2-pyrimidinyl)amino]carbonyl]-2-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



09/868,930

ANSWER 35 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1982:162745 CAPLUS
DN 96:162745
TI N-(Substituted phenylsulfonyl) N'-(substituted pyrimidin-2-yl)ureas
IN Levitt, George; Sauers, Richard F.
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 60 pp. Cont.-in-part of U.S. Ser. No. 130,342, abandoned.
CODEN: USXXAM

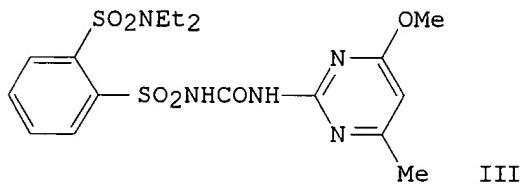
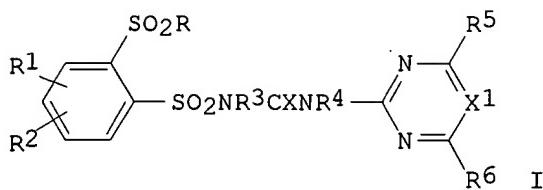
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4310346	A	19820112	US 1980-152022	19800530
	DK 8002592	A	19810121	DK 1980-2592	19800617
	BR 8004382	A	19810224	BR 1980-4382	19800715
	CA 1144923	A1	19830419	CA 1980-356200	19800715
	AU 8060601	A1	19810122	AU 1980-60601	19800718
	AU 536787	B2	19840524		
	EP 23141	A2	19810128	EP 1980-302433	19800718
	EP 23141	A3	19810401		
	EP 23141	B1	19840411		
	R: BE, DE, FR, GB, IT, LU, NL				
	JP 56029563	A2	19810324	JP 1980-97713	19800718
	GB 2057429	A	19810401	GB 1980-23622	19800718
	GB 2057429	B2	19830720		
	ES 493524	A1	19810601	ES 1980-493524	19800718
	ZA 8004359	A	19820224	ZA 1980-4359	19800718
	EP 70041	A2	19830119	EP 1982-107279	19800718
	EP 70041	A3	19830413		
	R: DE, FR, GB				
	HU 28949	O	19840130	HU 1980-1806	19800718
	HU 190668	B	19861028		
	IL 60631	A1	19860331	IL 1980-60631	19800718
	SU 1482508	A3	19890523	SU 1980-2949078	19800718
	DK 8104265	A	19810925	DK 1981-4265	19810925
	US 4417917	A	19831129	US 1981-313348	19811020
	CA 1146548	A2	19830517	CA 1982-403940	19820527
	AU 8424898	A1	19840705	AU 1984-24898	19840223
PRAI	US 1979-59153		19790720		
	US 1980-130342		19800314		
	US 1980-152022		19800530		
	DK 1980-2592		19800617		
	CA 1980-356200		19800715		
	EP 1980-302433		19800718		

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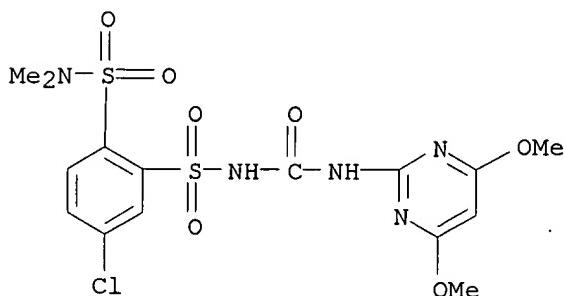
AB Sulfonylureas I [X = O, S; X1 = N, CH; R = amino, trihaloethoxy, phenoxy; R1 = H, Cl, Br, F, alkyl, NO₂, OMe, acyl, alkoxyethyl, CF₃, NO₂, NCO, amino, cyano, CH₂SOnMe, SOnMe (n = 0-2); R2 = H, Cl, F, Br, Me, OMe; R3, R4 = H, Me; R5 = H, Me, OMe, OEt; R6 = H, Cl, Br, (un)substituted alkyl, amino, alkoxy, SMe] were prepd. Thus, 2-O₂NC₆H₄SO₂Cl was aminated and hydrogenated to give 2-H₂NC₆H₄SO₂NET₂ which was diazotized and treated with SO₂ and NH₃ to give 2-H₂NSO₂C₆H₄SO₂NET₂ (II). Treatment of II with COCl₂ gave 2-Et₂NSO₂C₆H₄SO₂NCO which was treated with 2-amino-4-methoxy-6-methylpyrimidine to give III. At 0.1 kg/ha post-emergence III gave total control of e.g. cocklebur.

IT **77926-29-5P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)

RN 77926-29-5 CAPLUS

CN 1,2-Benzene-disulfonamide, 4-chloro-N₂-[[4,6-dimethoxy-2-pyrimidinyl]amino]carbonyl]-N₁,N₁-dimethyl- (9CI) (CA INDEX NAME)



IT **77925-94-1P 77925-95-2P 77925-97-4P
77925-98-5P 77926-00-2P 77926-30-8P
77926-31-9P 77926-33-1P 77926-34-2P
77926-37-5P 77926-38-6P 77926-77-3P
77926-78-4P 77926-79-5P 77926-80-8P
77926-81-9P 77926-83-1P 77927-11-8P
77927-12-9P 77927-13-0P 77927-14-1P
77927-17-4P 77927-18-5P 77927-20-9P**

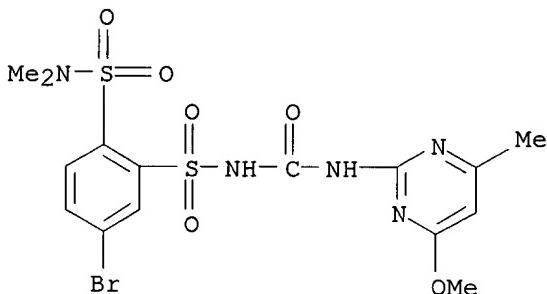
09/868,930

77927-21-0P 77945-18-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

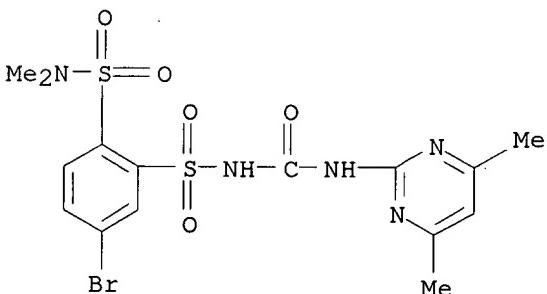
RN 77925-94-1 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



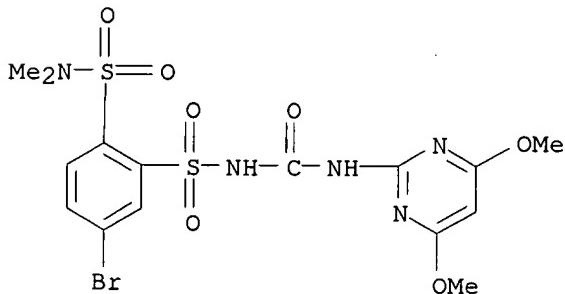
RN 77925-95-2 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



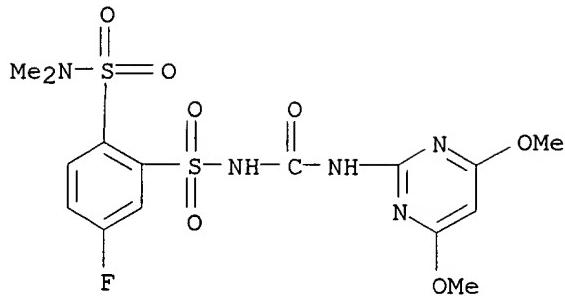
RN 77925-97-4 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

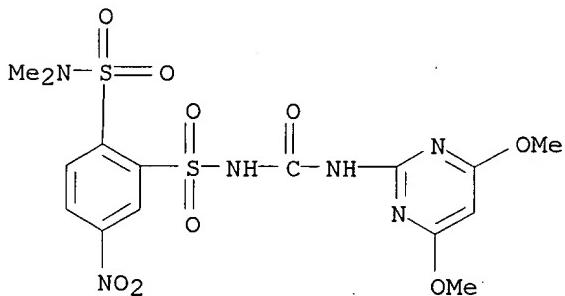


RN 77925-98-5 CAPLUS

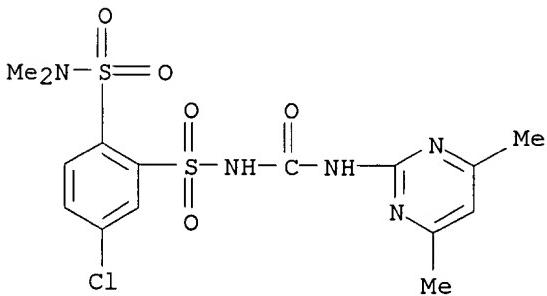
CN 1,2-Benzenedisulfonamide, N2-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77926-00-2 CAPLUS
CN 1,2-Benzenedisulfonamide, N2-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)

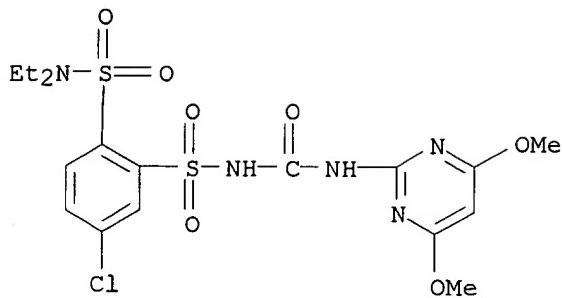


RN 77926-30-8 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



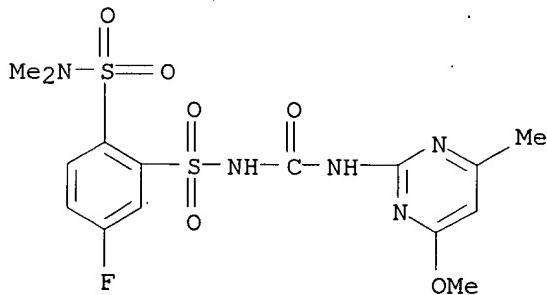
RN 77926-31-9 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-N1,N1-diethyl- (9CI) (CA INDEX NAME)

09/868,930



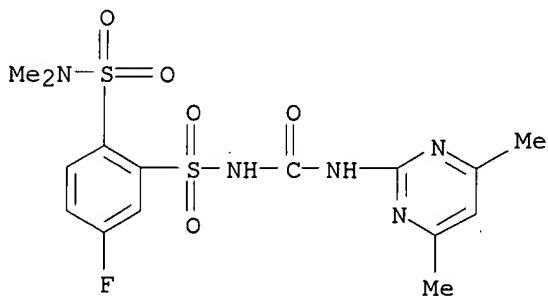
RN 77926-33-1 CAPLUS

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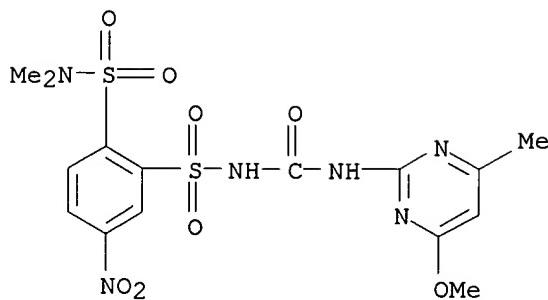
RN 77926-34-2 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



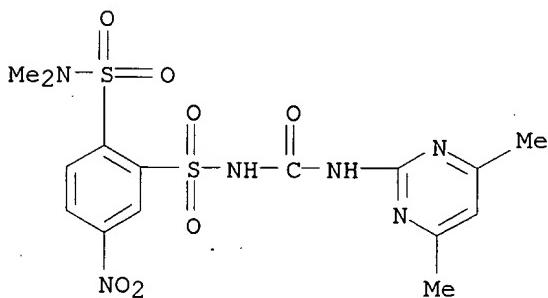
RN 77926-37-5 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



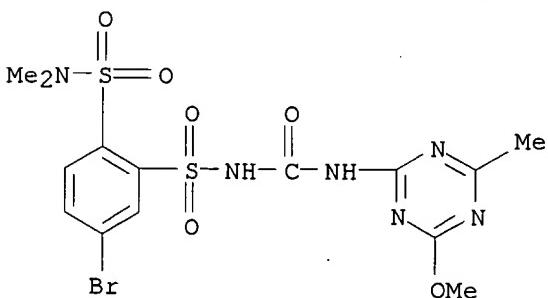
RN 77926-38-6 CAPLUS

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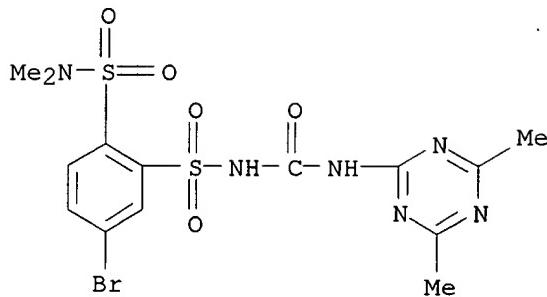
RN 77926-77-3 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

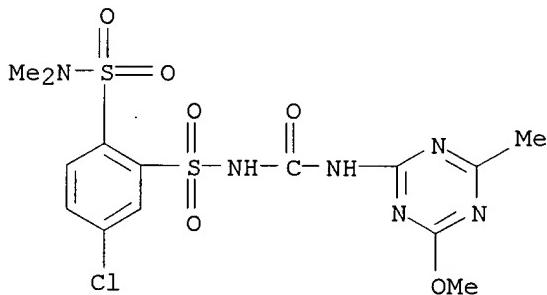


RN 77926-78-4 CAPLUS

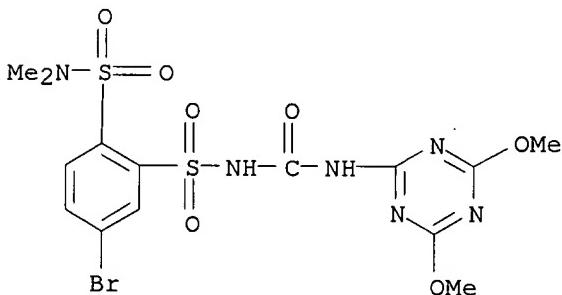
CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



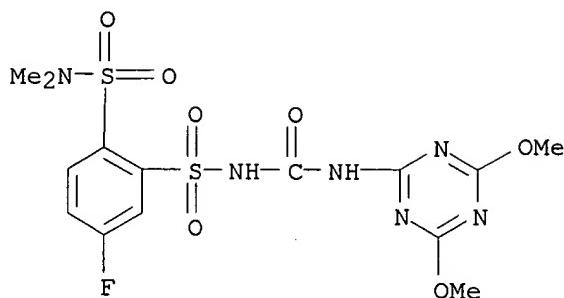
RN 77926-79-5 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77926-80-8 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

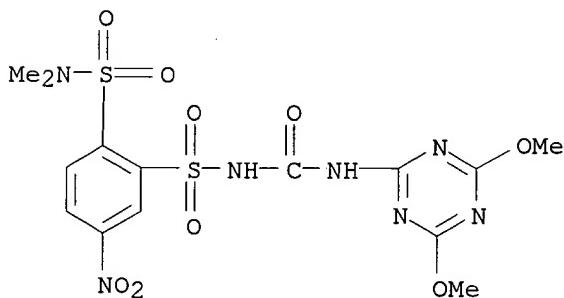


RN 77926-81-9 CAPLUS
CN 1,2-Benzenedisulfonamide, N2-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



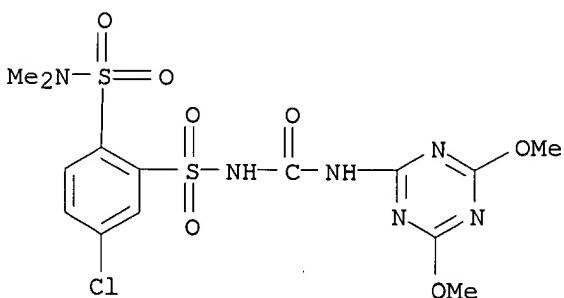
RN 77926-83-1 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



RN 77927-11-8 CAPLUS

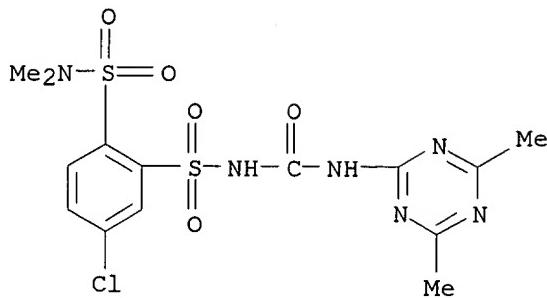
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77927-12-9 CAPLUS

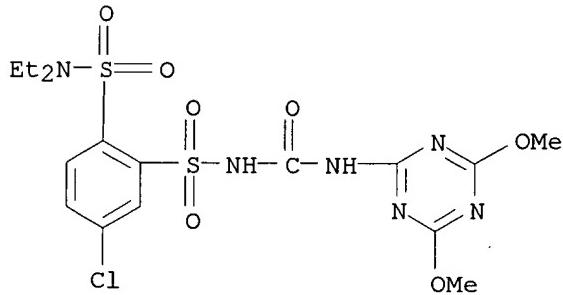
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[[[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

09/868,930



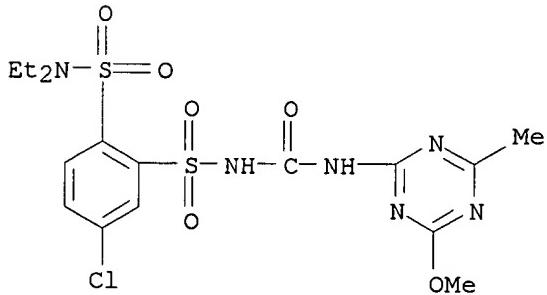
RN 77927-13-0 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-diethyl- (9CI) (CA INDEX NAME)



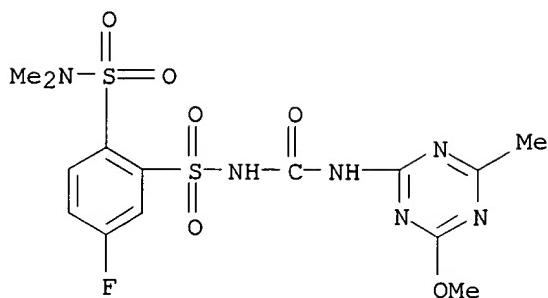
RN 77927-14-1 CAPLUS

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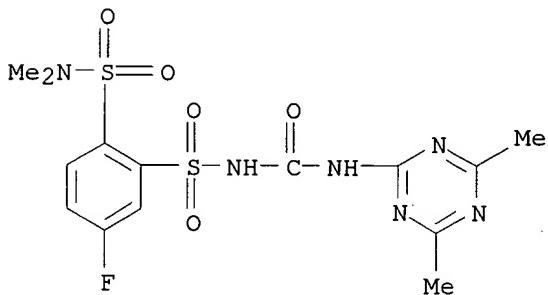
RN 77927-17-4 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-fluoro-N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



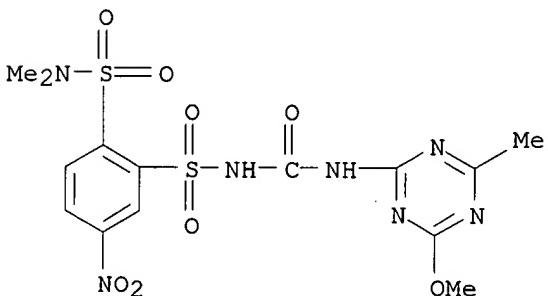
RN 77927-18-5 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[[[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77927-20-9 CAPLUS

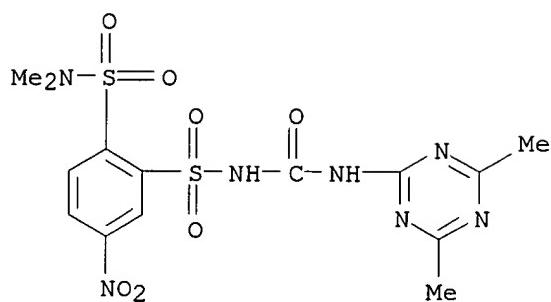
CN 1,2-Benzenedisulfonamide, N2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



RN 77927-21-0 CAPLUS

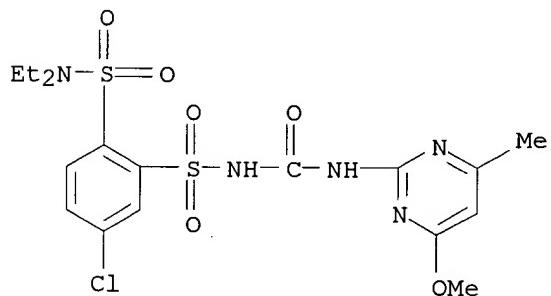
CN 1,2-Benzenedisulfonamide, N2-[[[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)

09/868,930



RN 77945-18-7 CAPLUS

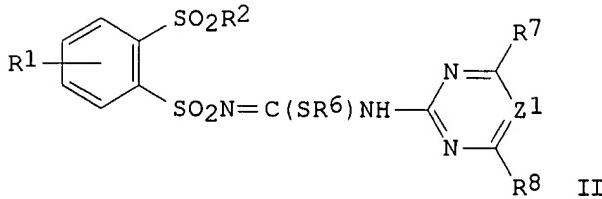
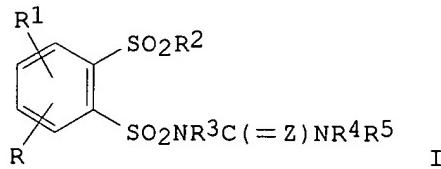
CN 1,2-Benzenedisulfonamide, 4-chloro-N1,N1-diethyl-N2-[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



LA ANSWER 36 OF 44 CAPLUS COPYRIGHT 2003 ACS
 DN 1981:424549 CAPLUS
 DN 95:24549
 TI Herbicidal sulfonamides compositions containing them, and intermediates therefor
 IN Levitt, George; Sauers, Richard Frank
 PA du Pont de Nemours, E. I., and Co., USA
 SO Eur. Pat. Appl., 170 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 23141	A2	19810128	EP 1980-302433	19800718
EP 23141	A3	19810401		
EP 23141	B1	19840411		
R: BE, DE, FR, GB, IT, LU, NL				
US 4310346	A	19820112	US 1980-152022	19800530
ZA 8004359	A	19820224	ZA 1980-4359	19800718
EP 70041	A2	19830119	EP 1982-107279	19800718
EP 70041	A3	19830413		
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PRAI US 1979-59153		19790720		
US 1980-130342		19800314		
US 1980-152022		19800530		
EP 1980-302433		19800718		

GI



AB Ureas and thioureas I and isothioureas II [R = H, Cl, F, Br, Me, MeO; R1 = H, Cl, Br, F, alkyl, NO₂, MeO, alkanoyl, alkoxyethyl, CF₃, NH₂, isocyanato, alkanamido, 3-alkylureido, carbalkoxyamino, NMe₂, cyano, CH₂S(O)nMe or S(O)nMe (n = 0, 1, 2); R2 = mono- or disubstituted amino, OCH₂CCl₃, OCH₂CBr₃, (un)substituted phenoxy, polyfluoroalkoxy; R3 = R4 = H or one of R3 and R4 is H and the other is Me; R5 = substituted pyrimidin-2-yl or 1,3,5-triazin-2-yl, (un)substituted pyrimidin-4-yl or 1,2,4-triazin-3-yl; Z = O, S; R6 = alkyl, alkoxyalkyl, carbalkoxyalkyl, carbamoylalkyl, phenylalkyl; R7 = H, MeO, Me, and R8 = H, MeO, EtO, Me

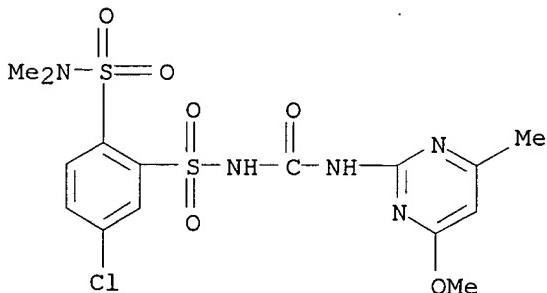
(only one of R7 and R8 is H); Z1 = N, CH], which showed herbicidal activity, were prep'd. by different methods. The addn. reaction of 2-(Et₂NSO₂)C₆H₄NCO with 2-amino-4-methoxy-6-methylpyrimidine in MeCN gave I (R = R₁ = R₃ = R₄ = H, R₂ = NEt₂, Z = O, R₅ = 4-methoxy-6-methylpyrimidin-2-yl).

IT 77925-96-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(herbicidal activity of)

RN 77925-96-3 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

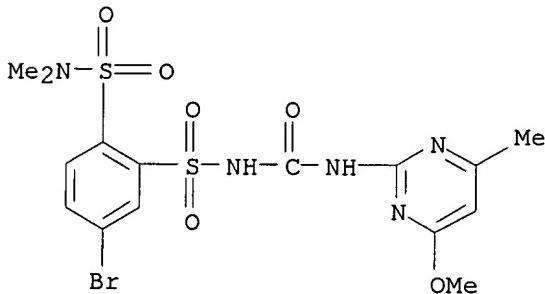


IT 77925-94-1P 77925-95-2P 77925-96-3P
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77927-13-0P 77927-14-1P 77927-17-4P
77927-18-5P 77927-20-9P 77927-21-0P
77945-18-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 77925-94-1 CAPLUS

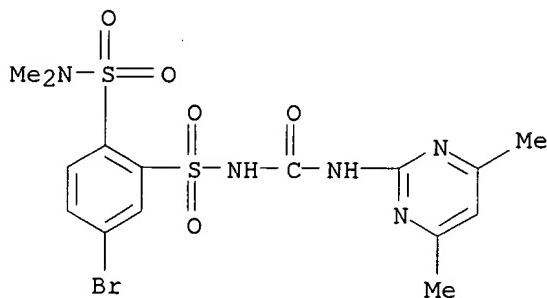
CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77925-95-2 CAPLUS

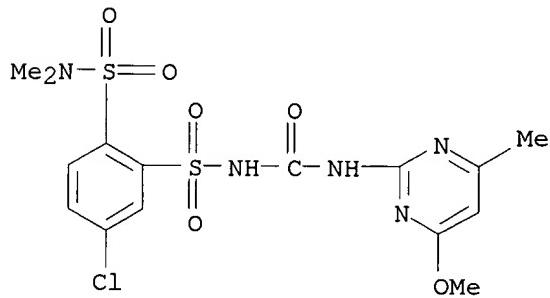
09/868,930

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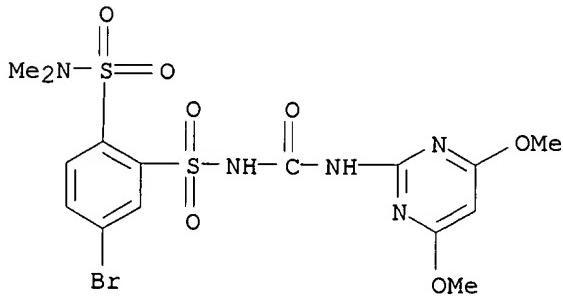
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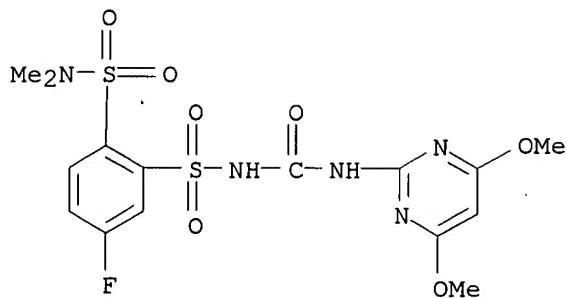
RN 77925-97-4 CAPLUS

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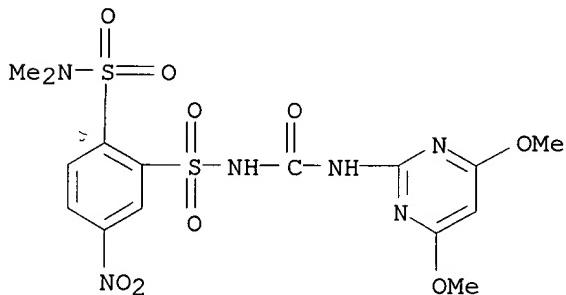
RN 77925-98-5 CAPLUS

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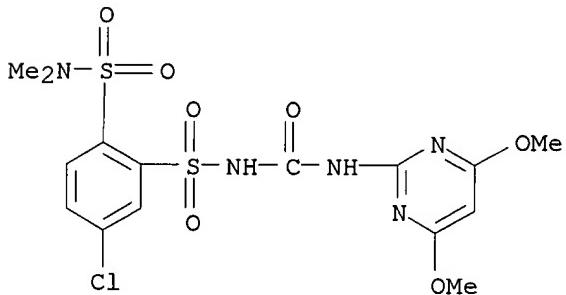
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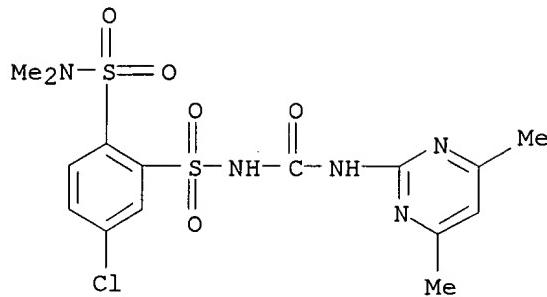
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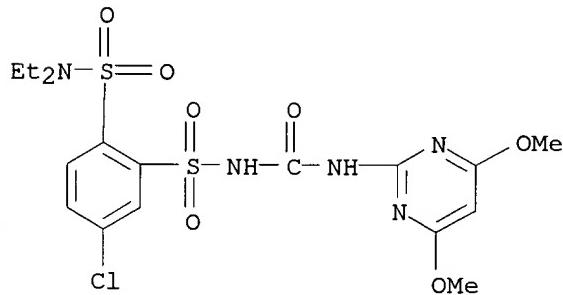


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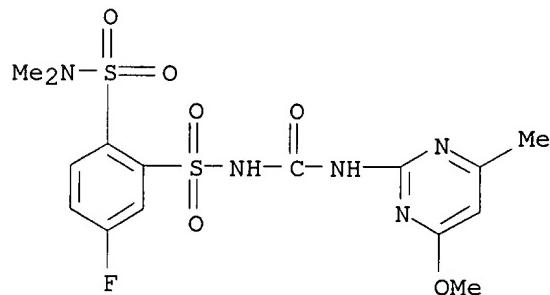
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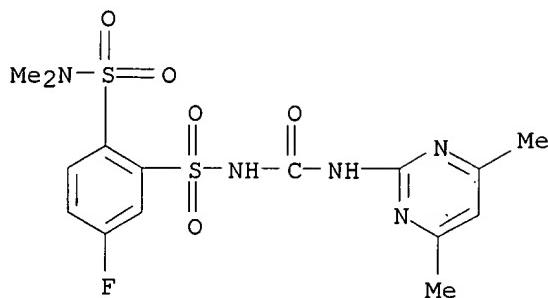
RN 77926-31-9 CAPLUS
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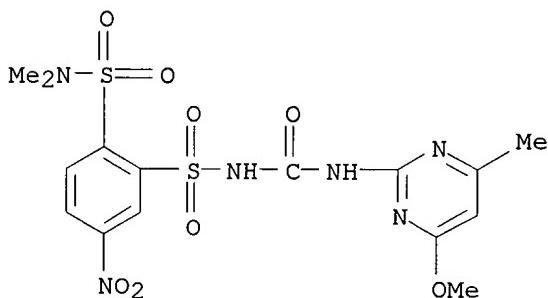
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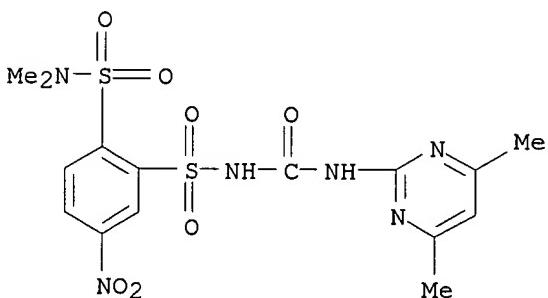
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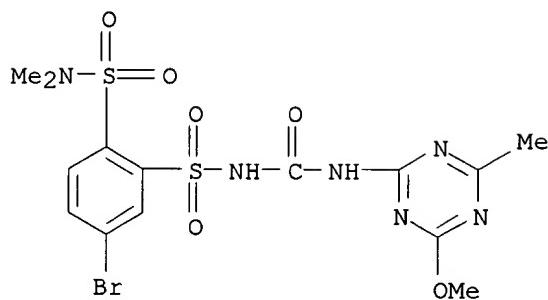
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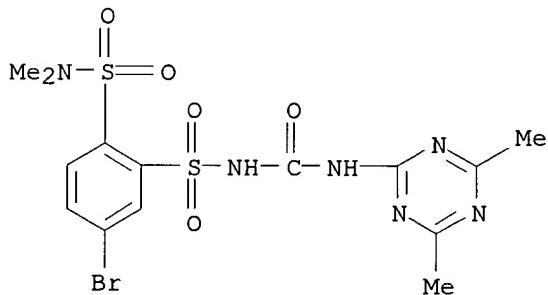
RN 77926-38-6 CAPLUS
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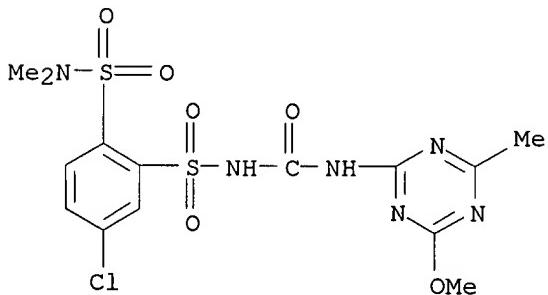
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CN 1,2-Benzenedisulfonamide, 4-bromo-N2-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



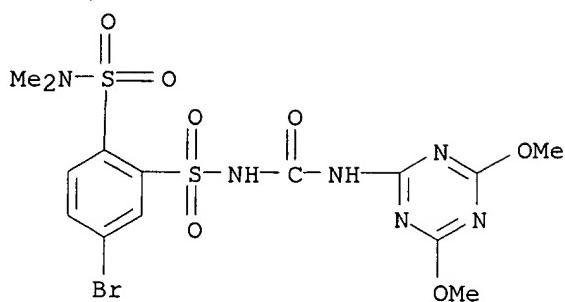
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RN 77926-79-5 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

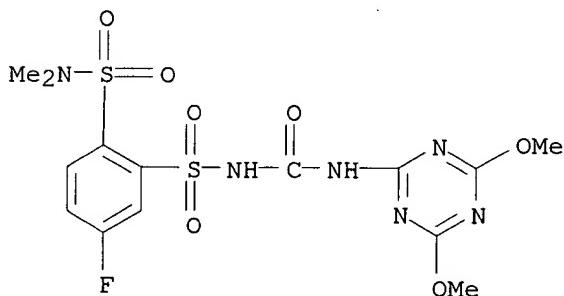


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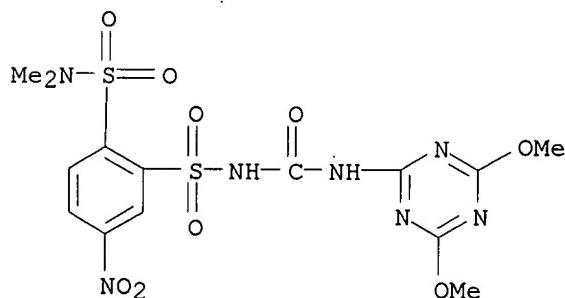
RN 77926-81-9 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



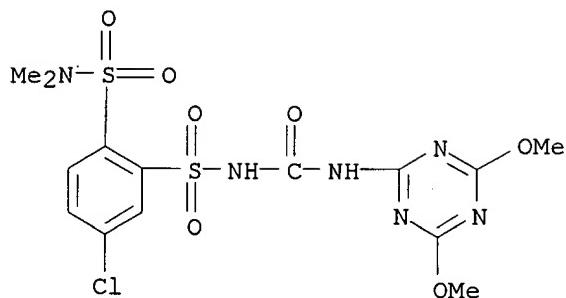
RN 77926-83-1 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)

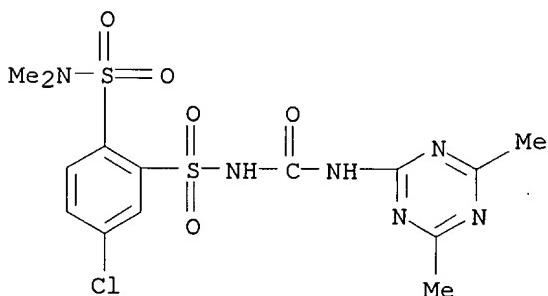


RN 77927-11-8 CAPLUS

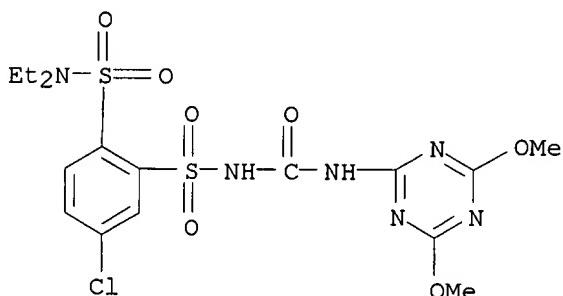
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



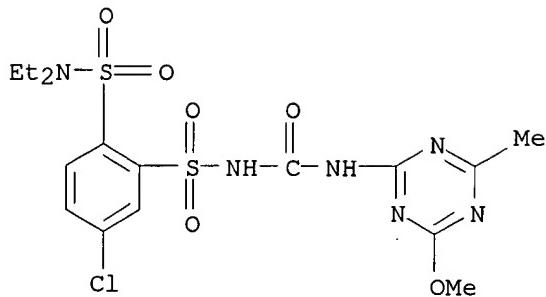
RN 77927-12-9 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



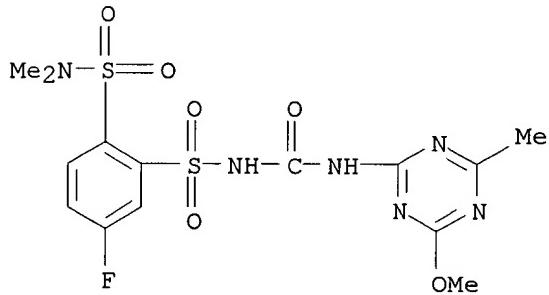
RN 77927-13-0 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N2-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-diethyl- (9CI) (CA INDEX NAME)



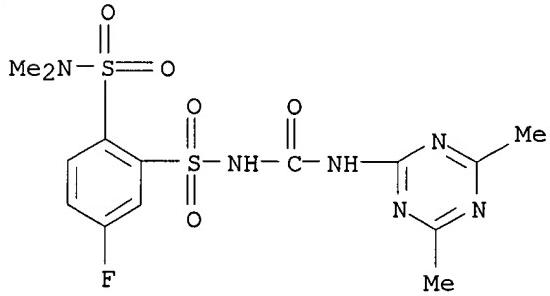
RN 77927-14-1 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-chloro-N1,N1-diethyl-N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl- (9CI) (CA INDEX NAME)



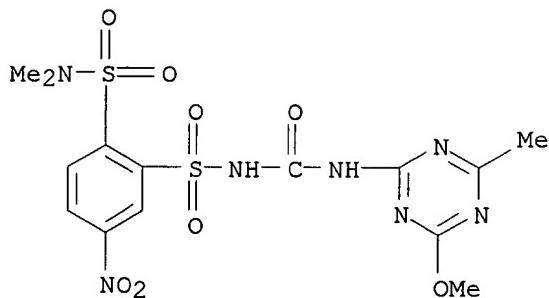
RN 77927-17-4 CAPLUS
CN 1,2-Benzenedisulfonamide, 4-fluoro-N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl- (9CI) (CA INDEX NAME)



RN 77927-18-5 CAPLUS
CN 1,2-Benzenedisulfonamide, N2-[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-4-fluoro-N1,N1-dimethyl- (9CI) (CA INDEX NAME)

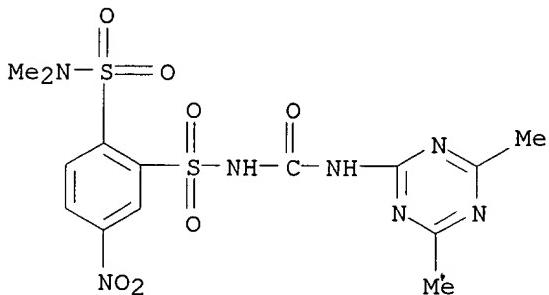


RN 77927-20-9 CAPLUS
CN 1,2-Benzenedisulfonamide, N2-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



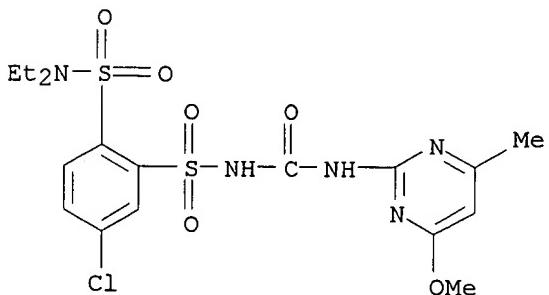
RN 77927-21-0 CAPLUS

CN 1,2-Benzenedisulfonamide, N2-[(4,6-dimethyl-1,3,5-triazin-2-yl)amino]carbonyl]-N1,N1-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



RN 77945-18-7 CAPLUS

CN 1,2-Benzenedisulfonamide, 4-chloro-N1,N1-diethyl-N2-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



09/868,930

L43 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1981:407349 CAPLUS

DN 95:7349

TI Herbicidal sulfonamides, compositions containing them and their intermediates

IN Adams, John Benjamin, Jr.

PA du Pont de Nemours, E. I., and Co., USA

SO Eur. Pat. Appl., 83 pp.

CODEN: EPXXDW

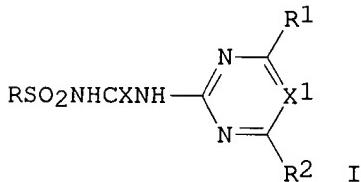
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 23422	A2	19810204	EP 1980-302536	19800724
	EP 23422	A3	19810408		
	EP 23422	B1	19840222		
	R: BE, DE, FR, GB, IT, LU, NL, SE				
	US 4452628	A	19840605	US 1980-152021	19800530
	EP 64322	A2	19821110	EP 1982-200654	19800724
	EP 64322	A3	19821208		
	EP 64322	B1	19850522		
	R: BE, DE, FR, GB, IT, LU, NL, SE				
PRAI	US 1979-60869		19790726		
	US 1980-152021		19800530		
	EP 1980-302536		19800724		

GI



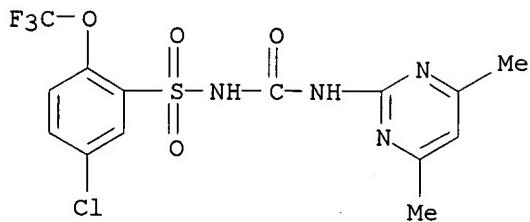
AB Sulfonylureidopyrimidines I (R = optionally substituted Ph; R₁ = Me, OMe; R₂ = optionally substituted alkyl, alkoxy; X = O, S; X₁ = N, CH) were prep'd. Thus 4-CF₃OC₆H₄Cl was treated with ClSO₃H to give 2 isomeric sulfonyl chlorides, which were aminated, treated with COCl₂, and 2-amino-4,6-dimethylpyrimidine to give I [R = 2,5-Cl(CF₃O)C₆H₃, 5,2-Cl(CF₃O)C₆H₃, R₁ = R₂ = Me, X = O, X₁ = CH]. This mixt. inhibited the growth of beans and cotton at 2 kg/ha post-emergence.

IT 77797-69-4P 77797-93-4P 77883-57-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and herbicidal activity of)

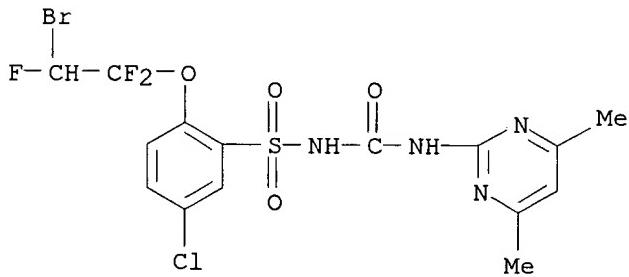
RN 77797-69-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-(trifluoromethoxy)-(9CI) (CA INDEX NAME)



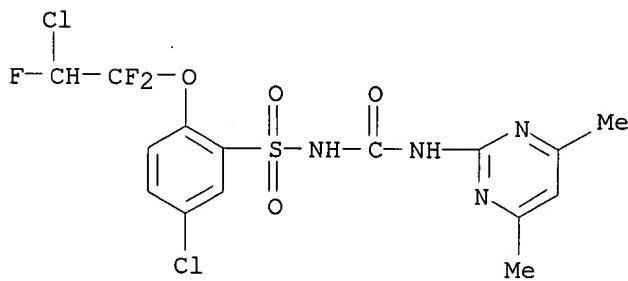
RN 77797-93-4 CAPLUS

CN Benzenesulfonamide, 2-(2-bromo-1,1,2-trifluoroethoxy)-5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 77883-57-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-(2-chloro-1,1,2-trifluoroethoxy)-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



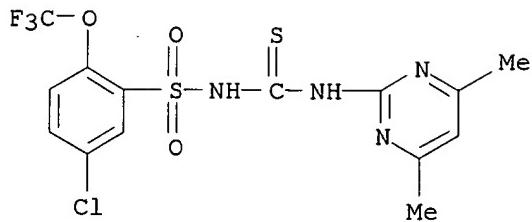
IT 77797-74-1P 77797-78-5P 77797-86-5P

77798-02-8P 77798-03-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

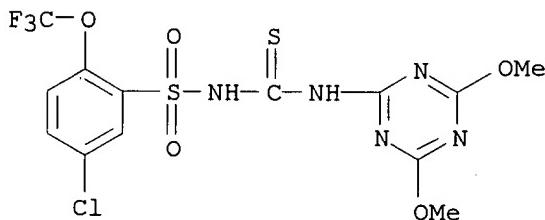
RN 77797-74-1 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]thioxomethyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



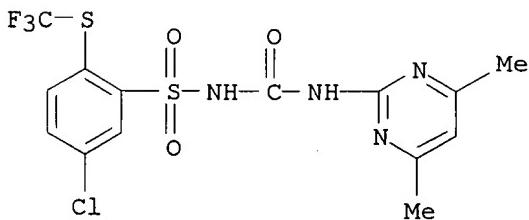
RN 77797-78-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]thioxomethyl]-2-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



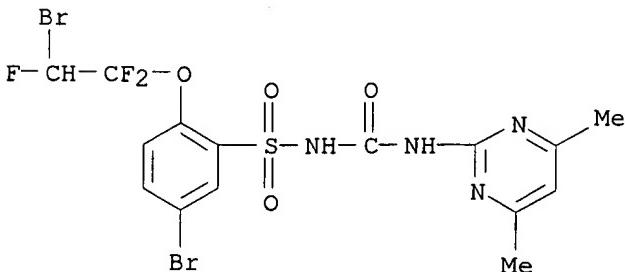
RN 77797-86-5 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



RN 77798-02-8 CAPLUS

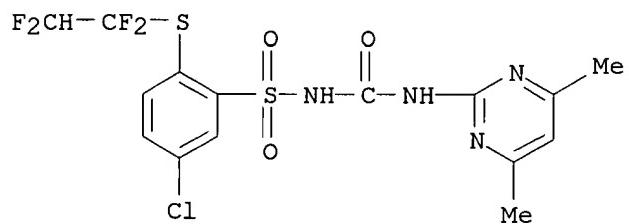
CN Benzenesulfonamide, 5-bromo-2-(2-bromo-1,1,2-trifluoroethoxy)-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



09/868,930

RN 77798-03-9 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-[(1,1,2,2-tetrafluoroethyl)thio]- (9CI) (CA INDEX NAME)

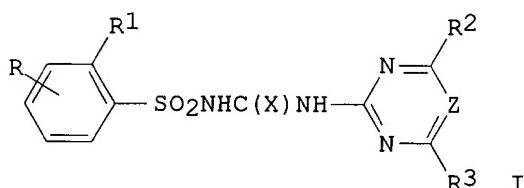


09/868,930

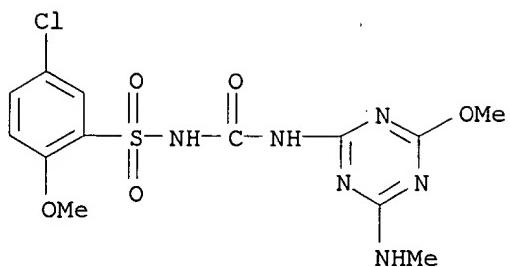
L13 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1980:426106 CAPLUS
DN 93:26106
TI Herbicidal sulfonamides
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 15 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4190432	A	19800226	US 1977-820882	19770801
	DK 7802795	A	19790202	DK 1978-2795	19780621
	BR 7804894	A	19790424	BR 1978-4894	19780728
	CS 199741	P	19800731	CS 1978-5016	19780728
	JP 54044683	A2	19790409	JP 1978-92691	19780731
	AU 7838496	A1	19800207	AU 1978-38496	19780731
	AU 519709	B2	19811217		
	HU 23856	O	19821028	HU 1978-DU288	19780731
	HU 181423	B	19830728		
	AT 7805580	A	19800915	AT 1978-5580	19780801
	AT 362187	B	19810427		
	US 4231784	A	19801104	US 1979-37948	19790510
PRAI	US 1977-820882		19770801		

GI

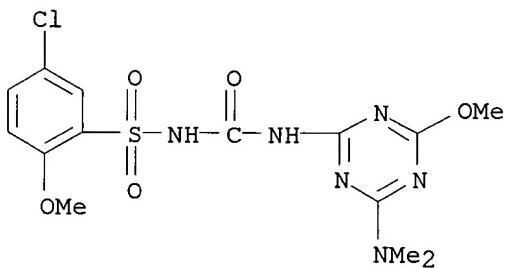


- AB The reaction of benzenesulfonyl isocyanates with amino-s-triazines gave benzenesulfonamides I (R and R1 are independently H, F, Cl, Br, Me, OMe, NO₂, CF₃; X = O, S; R2 = NHMe, NMe₂; R3 = Me, OMe; Z = N), which exhibited herbicidal activity. I are useful as plant growth regulators (no data). A mixt. of 2-ClC₆H₄SO₂NCO and 2-amino-4-methoxy-6-methylamino-1,3,5-triazine in MeCN was stirred 18 h at room temp. to yield I (R = H, R1 = Cl, X = O, R2 = NHMe, R3 = OMe, Z = N).
- IT 71103-34-9P 71103-38-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and herbicidal activity of)
- RN 71103-34-9 CAPLUS
- CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[[[4-methoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 71103-38-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-(dimethylamino)-6-methoxy-1,3,5-triazin-2-yl]amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



~~LA~~ ANSWER 39 OF 44 CAPLUS COPYRIGHT 2003 ACS

~~AI~~ 1980:111047 CAPLUS

DN 92:111047

TI Herbicidal sulfonamides

IN Levitt, George

PA du Pont de Nemours, E. I., and Co., USA

SO U.S., 62 pp.

CODEN: USXXAM

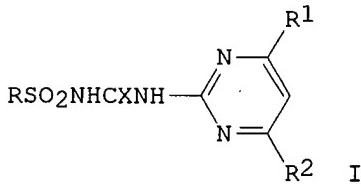
DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4169719	A	19791002	US 1977-840389	19771006
	ZA 7701429	A	19780222	ZA 1977-1429	19770309
	ZA 7702125	A	19780329	ZA 1977-2125	19770406
	CA 1082189	A1	19800722	CA 1977-275660	19770406
	PL 114069	B1	19810131	PL 1977-197235	19770406
	BE 853374	A1	19771007	BE 1977-176530	19770407
	EP 10560	A1	19800514	EP 1978-300579	19781101
	EP 10560	B1	19830413		
	R: BE, DE, FR, GB, LU, NL				
	ZA 7903397	A	19810225	ZA 1979-3397	19790706
	ES 550360	A3	19870316	ES 1985-550360	19851223
PRAI	US 1976-674668		19760407		
	US 1977-769913		19770223		
	NZ 1977-183821		19770406		
	US 1977-769914		19770223		
	CA 1979-275660		19790417		

GI



AB The pyrimidines I (R = optionally substituted Ph, furyl, thieryl, 1-naphthyl; R1 = H, Cl, Br, Me, Et, C1-3 alkoxy, CF3, SMe, CH2OMe; R2 = Me, OMe; X = O, S) were prep'd. particularly for control of nutsedge (*Cyperus rotundus*). Thus 2-amino-4,6-dimethylpyrimidine was treated with PhSO2NCO to give I (R = Ph, R1 = R2 = Me, X = O) which was herbicidally active at 0.4 kg/ha both pre- and post-emergence.

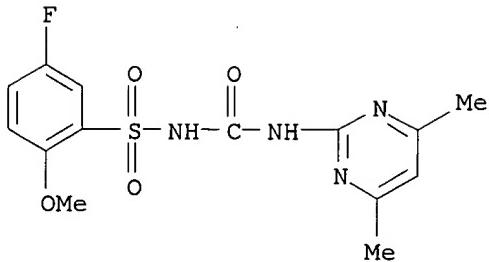
IT 64901-10-6P 64901-12-8P 64901-33-3P
64901-52-6P 64901-82-2P 64901-83-3P

64902-09-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)

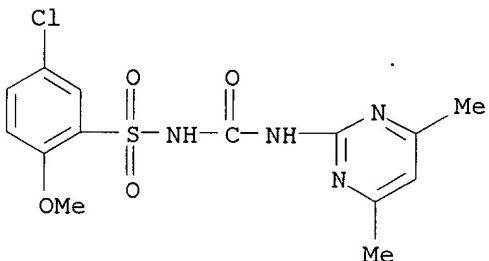
RN 64901-10-6 CAPLUS

CN Benzenesulfonamide, N-[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



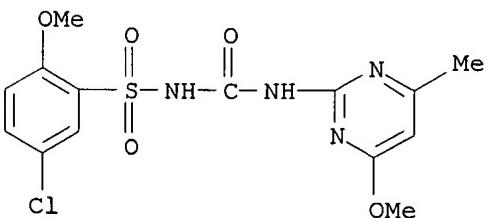
RN 64901-12-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



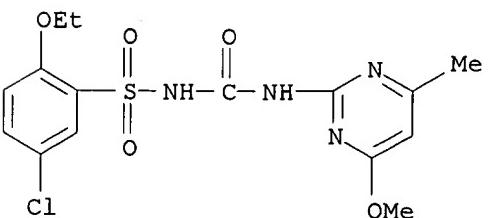
RN 64901-33-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 64901-52-6 CAPLUS

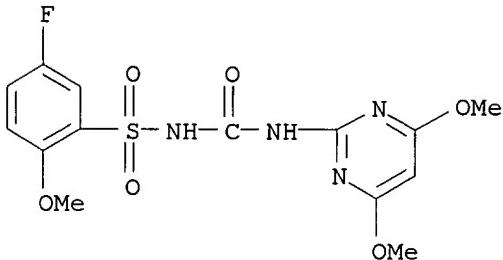
CN Benzenesulfonamide, 5-chloro-2-ethoxy-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



09/868,930

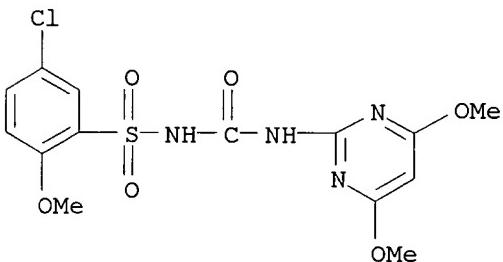
RN 64901-82-2 CAPLUS

CN Benzenesulfonamide, N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



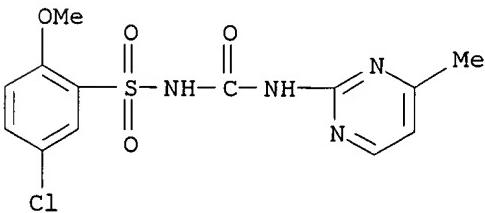
RN 64901-83-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



RN 64902-09-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



09/868,930

~~ANSWER~~ ANSWER 40 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1979:508011 CAPLUS

DN 91:108011

TI Sulfonamide agrochemicals

PA du Pont de Nemours, E. I., and Co., USA

SO Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

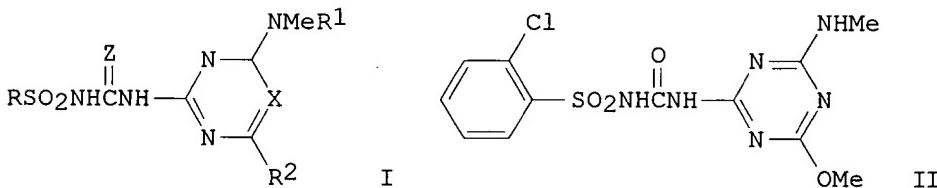
DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54044683 US 4190432	A2 A	19790409 19800226	JP 1978-92691 US 1977-820882	19780731 19770801
PRAI	US 1977-820882		19770801		

GI



AB Azines I [R = (halo-, Me-, MeO-, NO₂- or CF₃-substituted) Ph, thienyl; X = CH, N; Z = O, S; R1 = H, Me; R2 = Me, MeO] were prepd. and used as herbicides. Thus, stirring 2-amino-4-methoxy-6-methylamino-1,3,5-triazine and 2-chlorobenzensulfonyl isocyanate in MeCN 18 h at room temp. gave II.

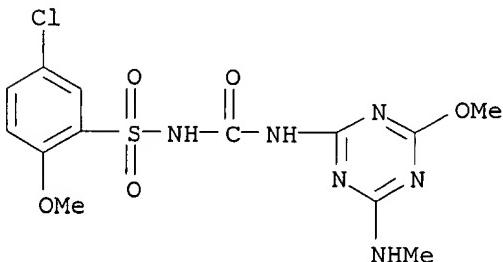
IT 71103-34-9P 71103-38-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and herbicidal activity of)

RN 71103-34-9 CAPLUS

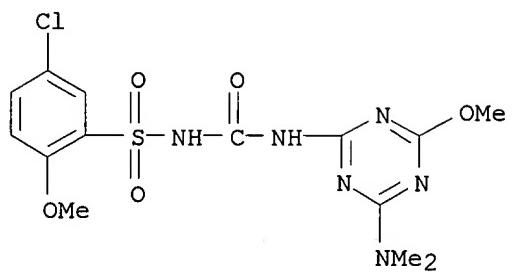
CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[[[4-methoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 71103-38-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[[4-(dimethylamino)-6-methoxy-1,3,5-triazin-2-yl]amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)

09/868, 930

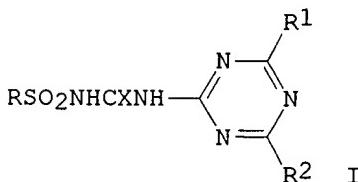


09/868,930

ANSWER 41 OF 44 CAPLUS COPYRIGHT 2003 ACS
AN 1979:104022 CAPLUS
DN 90:104022
TI Herbicidal sulfonamides
IN Levitt, George
PA du Pont de Nemours, E. I., and Co., USA
SO U.S., 50 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

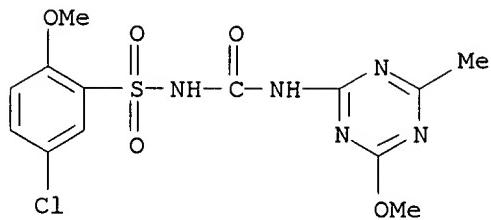
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4127405	A	19781128	US 1977-824805	19770815
	ZA 7701429	A	19780222	ZA 1977-1429	19770309
	ZA 7702125	A	19780329	ZA 1977-2125	19770406
	CA 1082189.	A1	19800722	CA 1977-275660	19770406
	PL 114069	B1	19810131	PL 1977-197235	19770406
	BE 853374	A1	19771007	BE 1977-176530	19770407
	EP 10560	A1	19800514	EP 1978-300579	19781101
	EP 10560	B1	19830413		
	R: BE, DE, FR, GB, LU, NL				
	ZA 7903397	A	19810225	ZA 1979-3397	19790706
	ES 550360	A3	19870316	ES 1985-550360	19851223
PRAI	US 1976-674668		19760407		
	US 1977-769914		19770223		
	US 1977-769913		19770223		
	CA 1979-275660		19790417		

GI



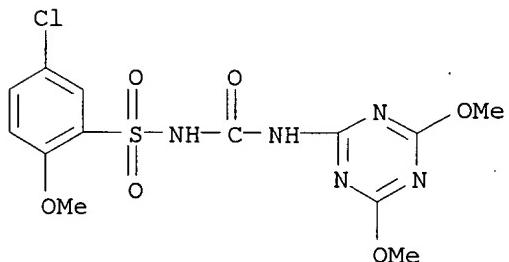
- AB Sulfonamides I (R = optionally substituted Ph, 2-furyl, 2-thienyl, 3-thienyl, 1-naphthyl; R1 = H, Cl, Br, Me, Et, C1-3 alkoxy, CF3, SMe, CH2OMe; R2 = Me, OMe; X = O, S) (125 compds.) were prep'd. Thus, 2-amino-4,6-dimethyl-s-triazine was treated with 2-MeC6H4SO2NCO to give I (R = 2-MeC6H4, R1 = R2 = Me, X = O), which at 0.4 kg/ha postemergence controlled nutsedge.
- IT 64903-02-2P 64903-03-3P 64903-04-4P
64903-05-5P 64903-24-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and herbicidal activity of)
- RN 64903-02-2 CAPLUS
- CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)

09/868,930



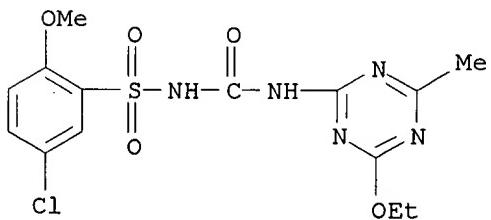
RN 64903-03-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



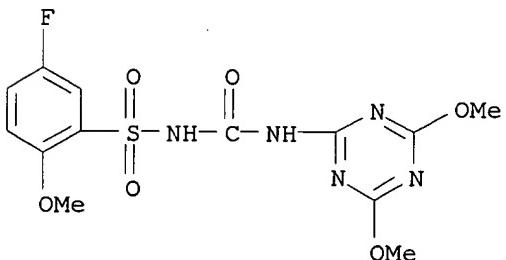
RN 64903-04-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-ethoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



RN 64903-05-5 CAPLUS

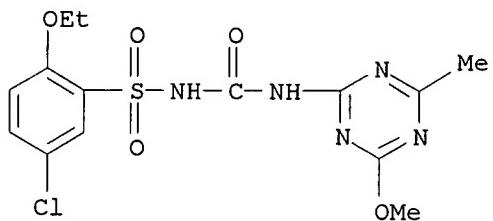
CN Benzenesulfonamide, N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



RN 64903-24-8 CAPLUS

09/868,930

CN Benzenesulfonamide, 5-chloro-2-ethoxy-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



~~L43~~ ANSWER 42 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1978:6935 CAPLUS

DN 88:6935

TI Herbicidal sulfonamides

IN Levitt, George

PA du Pont de Nemours, E. I., and Co., USA

SO Ger. Offen., 276 pp.

CODEN: GWXXBX

DT Patent

LA German

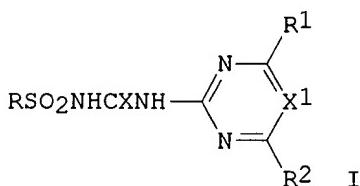
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2715786	A1	19771013	DE 1977-2715786	19770407
	DE 2715786	C2	19871105		
	ZA 7701429	A	19780222	ZA 1977-1429	19770309
	BR 7702160	A	19780502	BR 1977-2160	19770405
	SU 860675	A3	19810830	SU 1977-2466102	19770405
	SE 7704035	A	19771008	SE 1977-4035	19770406
	SE 436742	B	19850121		
	SE 436742	C	19850502		
	DK 7701537	A	19771008	DK 1977-1537	19770406
	DK 149343	B	19860512		
	DK 149343	C	19861020		
	NO 7701241	A	19771010	NO 1977-1241	19770406
	NO 147951	B	19830405		
	NO 147951	C	19830713		
	NL 7703809	A	19771011	NL 1977-3809	19770406
	ZA 7702125	A	19780329	ZA 1977-2125	19770406
	ES 457657	A1	19780601	ES 1977-457657	19770406
	IL 51834	A1	19791031	IL 1977-51834	19770406
	CA 1082189	A1	19800722	CA 1977-275660	19770406
	PL 114069	B1	19810131	PL 1977-197235	19770406
	CS 208101	P	19810831	CS 1977-2277	19770406
	BE 853374	A1	19771007	BE 1977-176530	19770407
	FI 7701123	A	19771008	FI 1977-1123	19770407
	FI 70577	B	19860606		
	FI 70577	C	19860924		
	JP 52122384	A2	19771014	JP 1977-39062	19770407
	JP 62036029	B4	19870805		
	DD 131519	C	19780705	DD 1977-198301	19770407
	AU 7724066	A1	19781012	AU 1977-24066	19770407
	AU 510056	B2	19800605		
	FR 2403337	A1	19790413	FR 1977-10599	19770407
	FR 2403337	B1	19830527		
	AT 7702463	A	19791115	AT 1977-2463	19770407
	AT 357359	B	19800710		
	GB 1561120	A	19800213	GB 1977-14900	19770407
	CH 632643	A	19821029	CH 1977-4472	19770407
	RO 70577	P	19830429	RO 1977-89955	19770407
	HU 25863	O	19830829	HU 1977-DU265	19770407
	HU 182948	B	19840328		
	EP 10560	A1	19800514	EP 1978-300579	19781101
	EP 10560	B1	19830413		
	R: BE, DE, FR, GB, LU, NL				
	ZA 7903397	A	19810225	ZA 1979-3397	19790706
	SU 1435141	A3	19881030	SU 1980-3008601	19801201
	ES 550360	A3	19870316	ES 1985-550360	19851223

09/868,930

PRAI US 1976-674668 19760407
US 1977-769913 19770223
US 1977-769914 19770223
CA 1979-275660 19790417

GI



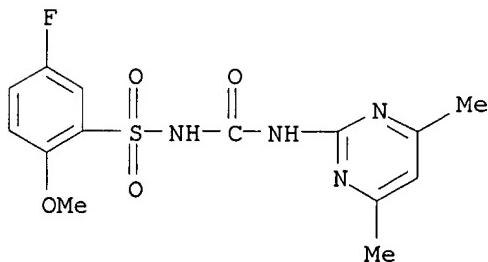
AB Sulfonamides I (R = Ph, substituted Ph, 2-thienyl, 2-furyl, 1-naphthyl; R₁, R₂ = H, alkyl, alkoxy, alkylthio, Cl, Br, CF₃; X = O, S; X₁ = CH, N) (328 compds.) were prepd. Thus, 2-amino-4,6-dimethylpyrimidine was treated with PhSO₂NCO to give I (R = Ph, R₁ = R₂ = Me, X = O, X₁ = CH) which was herbicidal at 0.4 kg/ha pre- or post-emergence.

IT 64901-10-6P 64901-12-8P 64901-33-3P
64901-52-6P 64901-82-2P 64901-83-3P
64902-09-6P 64903-02-2P 64903-03-3P
64903-04-4P 64903-05-5P 64903-24-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 64901-10-6 CAPLUS

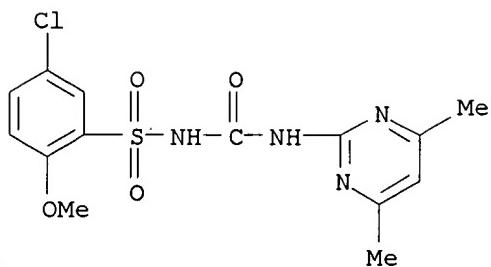
CN Benzenesulfonamide, N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



RN 64901-12-8 CAPLUS

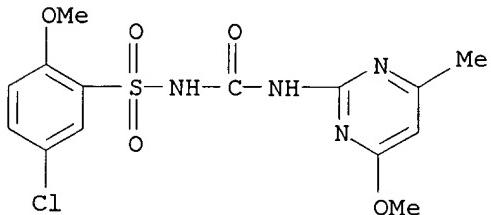
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)

09/868, 930



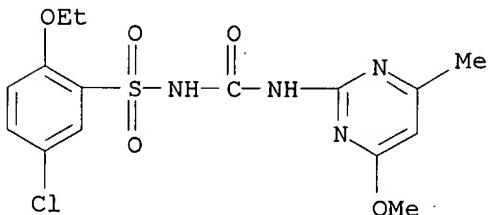
RN 64901-33-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



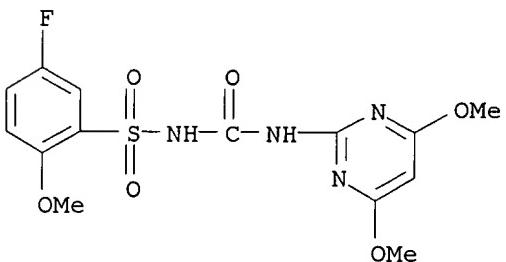
RN 64901-52-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-ethoxy-N-[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 64901-82-2 CAPLUS

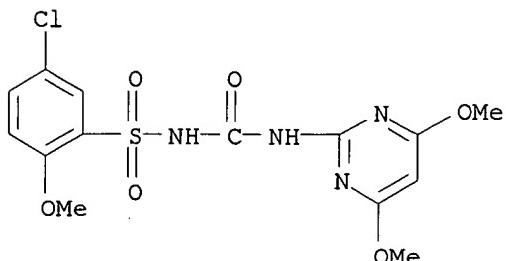
CN Benzenesulfonamide, N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



09/868, 930

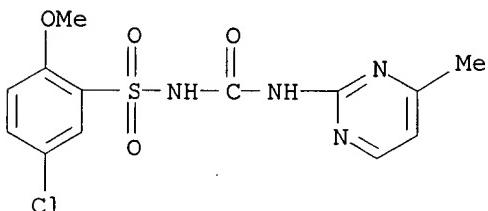
RN 64901-83-3 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



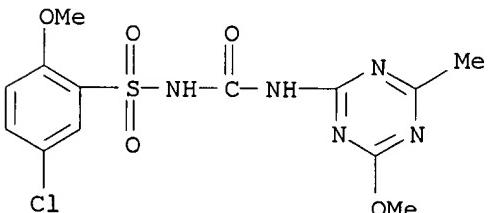
RN 64902-09-6 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methyl-2-pyrimidinyl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 64903-02-2 CAPLUS

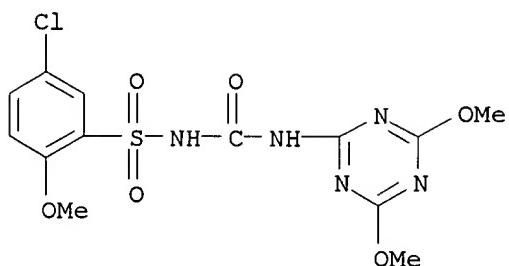
CN Benzenesulfonamide, 5-chloro-2-methoxy-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl- (9CI) (CA INDEX NAME)



RN 64903-03-3 CAPLUS

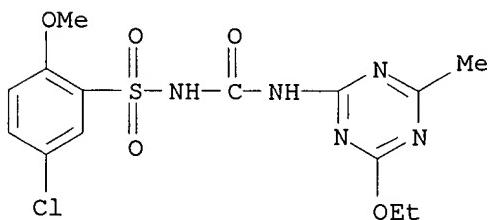
CN Benzenesulfonamide, 5-chloro-N-[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)

09/868,930



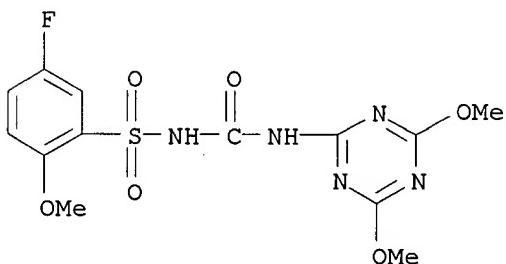
RN 64903-04-4 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[[(4-ethoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-methoxy- (9CI) (CA INDEX NAME)



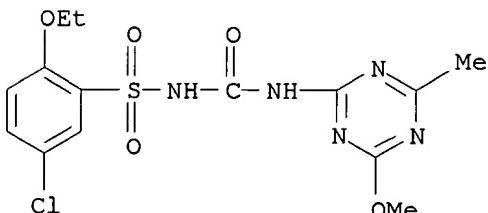
RN 64903-05-5 CAPLUS

CN Benzenesulfonamide, N-[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-5-fluoro-2-methoxy- (9CI) (CA INDEX NAME)



RN 64903-24-8 CAPLUS

CN Benzenesulfonamide, 5-chloro-2-ethoxy-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



09/868,930

D43 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1965:9055 CAPLUS

DN 62:9055

OREF 62:1636e-h,1637a

TI 4-Phenylsulfonyl-1,1-polymethylene semicarbazides

PA Farbwerke Hoechst A.-G.

SO 18 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1345329		19631206	FR	
	BE 658698			BE	
	DE 1196199			DE	
	GB 1010238			GB	
	US 3248383		1966	US	

PRAI DE 19611227

GI For diagram(s), see printed CA Issue.

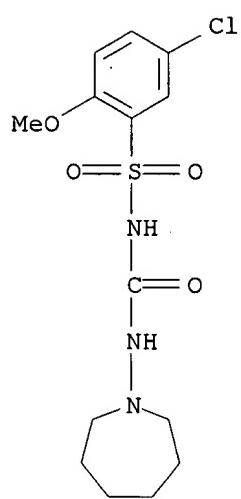
AB 1,1:5,5-Bis(alkylene) carbohydrazides are treated with benzenesulfonamides to give the title compds., which can be used as hypoglycemic agents. Thus, a mixt. of 0.890 g. Na deriv. of p-MeC₆H₄SO₂NH₂ and 1.21 g. 1,1:5,5-bis(hexamethylene)carbohydrazide is heated 10 min. at 180.degree., cooled to room temp., and dissolved in H₂O, the mixt. filtered, and the filtrate acidified with HOAc to give 4-(p-tolylsulfonyl)-1,1-hexamethylenesemicarbazide, m. 167.degree. (EtOH). Similarly prepd. are the following I (R = H) (R₁, R₂, n, and m.p. given): Me, Me, 6, 145-7.degree.; Me, Me, 5, 165-7.degree. (MeOH-H₂O); F, Me, 5, 150-1.degree. (MeOH); Cl, MeO, 4, 144-5.degree. (aq. MeOH); Cl, MeO, 5, 145-7.degree. (aq. MeOH); Cl, Cl, 6, 166.degree. (EtOH); Me, MeO, 4, 153-5.degree. (EtOH-H₂O); Me, MeO, 5, 158-60.degree. (EtOH-H₂O); MeO, MeO, 5, 154-6.degree. (EtOH-H₂O). Similarly prepd. are the following I (R₁ = R₂ = H) (R, n, and m.p. given): Me, 5, 172.degree.; Cl, 6, 164-6.degree. (EtOH); Br, 6, 174-6.degree. (decompn.) (EtOH). Similarly prepd. are the following I (R = R₂ = H) (R₁, n, and m.p. given): Cl, 6, 155.degree. (EtOH); Br, 6, 159-61.degree. (EtOH); Me, 6, 141-2.degree. (MeOH); CF₃, 6, 159-61.degree. (EtOH-H₂O). Similarly prepd. are the following I (R = R₁ = H) (R₂, n, and m.p. given): Cl, 6, 192.degree.; H, 6, 175.degree. (MeOH); Me, 5, 205.degree. (EtOH); Cl, 5, 213.degree. (EtOH-HCONMe₂); MeO, 5, 170-2.degree. (MeOH); iso-Pr, 4, 174-5.degree. (EtOH-H₂O); tert-Bu, 4, 186-7.degree. (iso-ProOH); H, 6, 159-61.degree. (MeOH); Pr, 5, 144-6.degree. (EtOH-H₂O); Et, 5, 174-6.degree. (MeOH); EtO, 6, 170-2.degree. (MeOH); Me, 7, 138-9.degree. (MeOH-H₂O); Me, 4, 180-2.degree. MeOH; H, 4, 172.degree. (MeOH); Cl, 4, 198.degree. (MeOH); Bz, 5, 192.degree. (MeOH); Ac, 5, 196-8.degree. (MeOH); CF₃, 5, 213.degree. (MeOH). Similarly prepd. are (m.p. given): 4-phenylsulfonyl-1,1-(2-methylpentamethylene)semicarbazide, 191-3.degree. (MeOH); 4-(2-methoxy-5'-chlorophenylsulfonyl)-1,1-hexamethylenesemicarbazide, 173-5.degree. (HCONMe₂-MeOH); 4-(4-methoxyphenylsulfonyl)-1,1-(.alpha.,.alpha.-dimethyltrimethylene)semicarbazide, 168-70.degree. (EtOH-H₂O).

IT 1757-11-5, Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(hexahydro-1H-azepin-1-yl)-
(prepn. of)

RN 1757-11-5 CAPLUS

CN Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(hexahydro-1H-azepin-1-yl)-(7CI, 8CI) (CA INDEX NAME)

09/868,930



09/868,930

LAS ANSWER 44 OF 44 CAPLUS COPYRIGHT 2003 ACS

AN 1964:9718 CAPLUS

DN 60:9718

OREF 60:1720d-g

TI Phenylsulfonylsemicarbazides

PA Farbwerte Hoechst A.-G.

SO 22 pp.

DT Patent

LA Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1335751		19630823	FR	19611003
	FR M2837			FR	
	GB 979007			GB	

GI For diagram(s), see printed CA Issue.

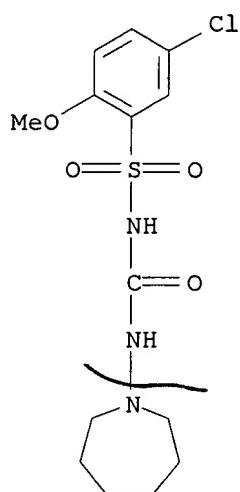
AB Phenylsulfonyl isocyanates are treated with N,N-alkylenehydrazines, where the alkylene group contains 3-7 C atoms, to give the title compds. which can be used as hypoglycemic agents. Thus, a mixt. of 20.5 g. 5,2-ClMeC₆H₃SO₂NHCO₂Me and 10 g. N-aminopiperidine is heated 10-15 min. at 100.degree., 250 ml. 1% NH₃ added at 50-60.degree., and the soln. treated with active C, cooled, and treated with dil. HOAc to give 4 - (2 - methyl - 5 - chlorophenylsulfonyl) - 1,1 - pentamethylenesemi-carbazide, m. 192-3.degree. [HCONMe₂ (DMF)]. Similarly prep'd. are the following I (n, X, Y, Z, and m.p. given): 5, Cl, H, MeO, 194-5.degree. (MeOH); 5, Cl, Me, H, 161-2.degree. (DMF-H₂O); 4, Cl, Me, H, 162-3.degree. (aq. MeOH); 6, Cl, Me, H, 145-6.degree. (DMF-H₂O); 4, Cl, H, Me, 161-3.degree.; 4, Cl, H, MeO, 174-6.degree. (MeOH); 4, F, Me, H, 163.degree. (MeOH); 5, F, Me, H, 158-9.degree.; 6, F, Me, H, 150-1.degree.; 4, Cl, MeO, H, 144-5.degree. (aq. MeOH); 5, Cl, MeO, H, 145.5-47.degree.; 6, Cl, MeO, H, 149-50.degree.; 5, Cl, Cl, H, 178.degree. (EtOH); 6, Cl, Cl, H, 166.degree. (EtOH); 6, Cl, H, MeO, 173-5.degree. (DMF-MeOH); 4, Me, MeO, H, 153-5.degree. (EtOH-H₂O); 5, Me, MeO, H, 158-60.degree.; 6, Me, MeO, H, 158-60.degree.; 5, MeO, MeO, H, 154-6.degree. (H₂O-EtOH); 5, MeO, MeO, H, 172-4.degree.; 4, H, MeO, Me, 160-2.degree.; 5, H, MeO, Me, 161-8.degree.; 6, Me, Me, H, 145-7.degree. (MeOH); 5, Me, Me, H, 168-71.degree. (MeOH); 6, Me, Me, H, 145-7.degree. (MeOH); 5, Cl, Me, H, 161-2.degree. (DMF-H₂O); and 4, F, Me, H, 162-3.degree. (MeOH). The following II were also prep'd. (X, Y, Z, R, m.p. given): Me, MeO, H, CH-(Me)CH₂CH(Me), 169-71.degree. (EtOH-H₂O); Cl, Me, H, CHMe-(CH₂)₃CHMe, 196-8.degree. (MeOH-DMF); and Me, Me, H, (CH₂)₃-CHMeCH₂, 151-3.degree. (MeOH).

IT 1757-11-5, Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(hexahydro-1H-azepin-1-yl)- 92105-94-7, Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-piperidino- 92167-72-1, Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(1-pyrrolidinyl)- (prepn. of)

RN 1757-11-5 CAPLUS

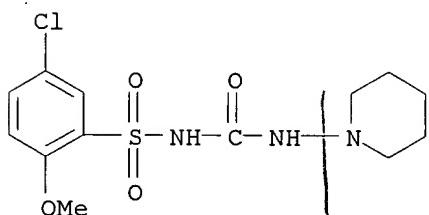
CN Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(hexahydro-1H-azepin-1-yl)- (7CI, 8CI) (CA INDEX NAME)

09/868,930



RN 92105-94-7 CAPLUS

CN Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-piperidino- (7CI) (CA INDEX NAME)



RN 92167-72-1 CAPLUS

CN Urea, 1-[(5-chloro-2-methoxyphenyl)sulfonyl]-3-(1-pyrrolidinyl)- (7CI) (CA INDEX NAME)

